The Builder

A NEWSPAPER FOR THE ARCHITECT AND CONSTRUCTOR

NO. 6094 118TH YEAR. FRIDAY, MARCH 4, 1960. Price 1/6.

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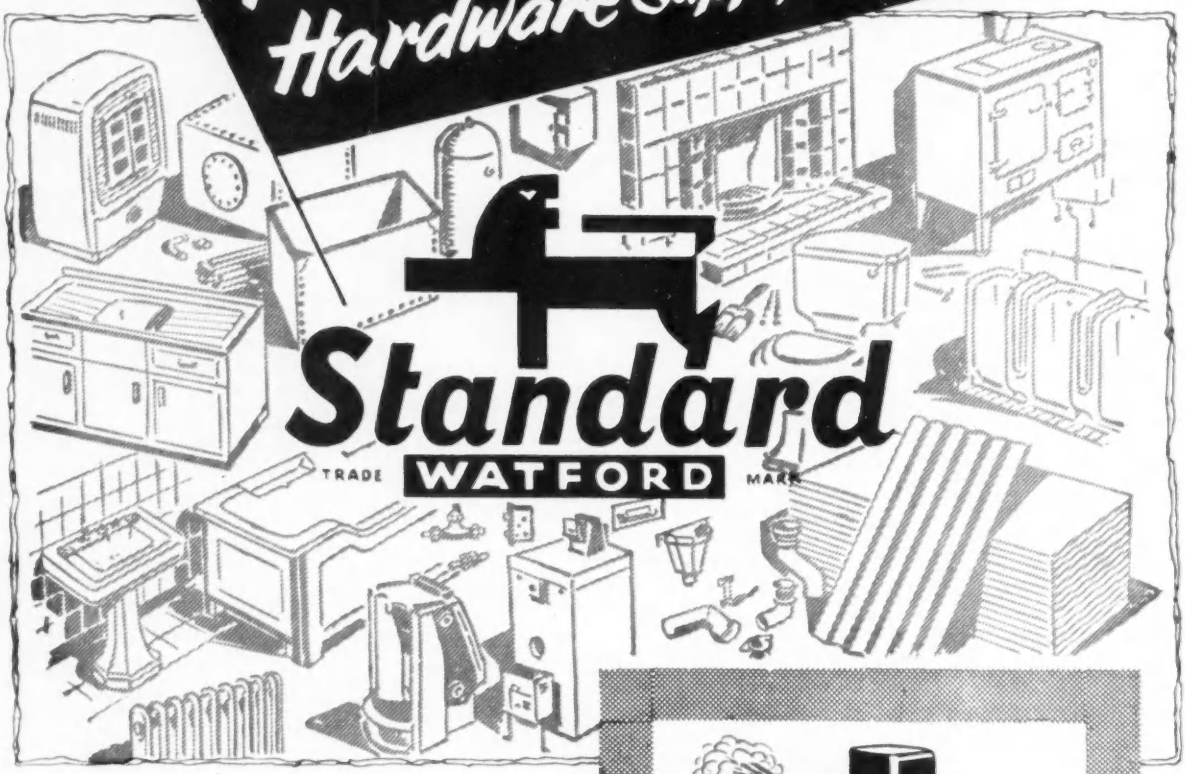

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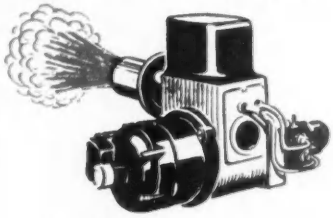

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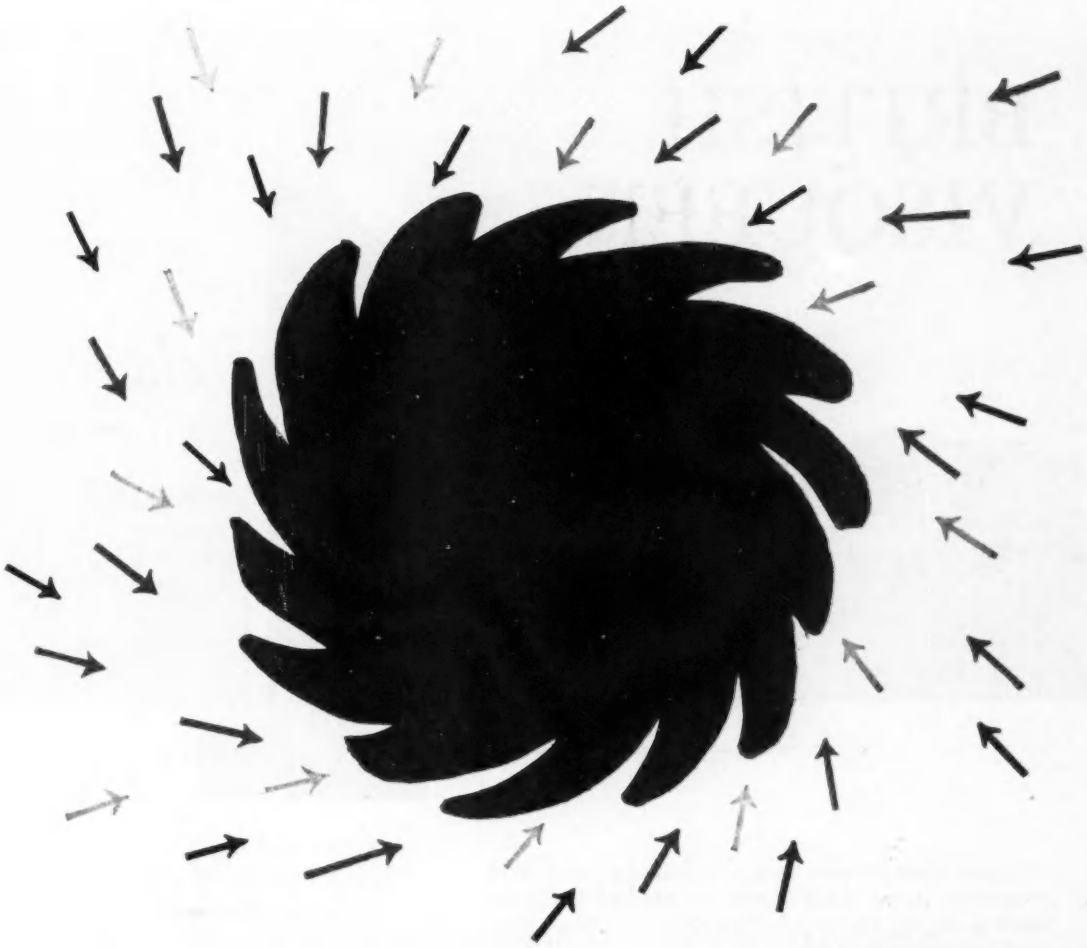

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in ONE spray application

Here is a striking multicoloured finish which can be applied by spray in **one application only.**

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This versatile coating can be used on a wide range of surfaces, including plaster, concrete, wood and metals. It will successfully "marry up" dissimilar surfaces, unifying them into a basic scheme. A host of decorative problems can be solved with Tretol Multicolour and its extremely hardwearing qualities make it particularly suitable for staircase walls of flats, entrance halls and corridors of schools, hospitals, hotels, etc.

We shall be glad to send you details of the Tretol Multicolour colour range which incorporates both bold and subtle shade patterns.

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Regd. Trade mark

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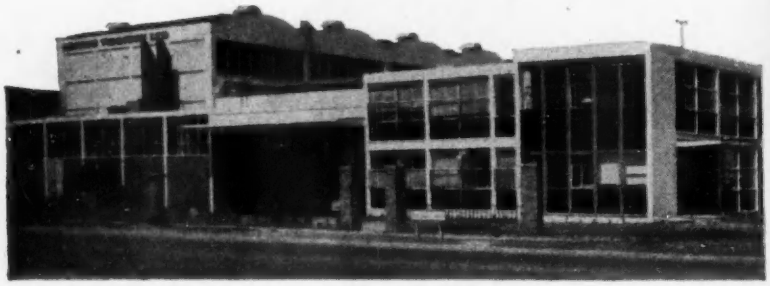
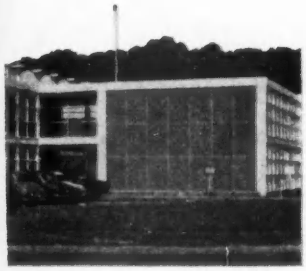
TRETOL (SCOTLAND) LTD., 65 RENFIELD STREET, GLASGOW, C.2 Telephone: Douglas 6133

BRITISH VISQUEEN

make a No. 1 choice





The new British Visqueen factory at Stevenage was built to produce the largest output of polythene sheeting in Europe; and it is here that the Visqueen Building sheet is also manufactured to supply an increasing number of applications for it in the building industry.

To render the concrete factory floors hard, dustless, waterproof and able to withstand exceptionally heavy wear and tear, British Visqueen chose Lillington's No. 1 Metallic Liquid.

For nearly fifty years, architects have specified Lillington's No. 1 Metallic Liquid, the scientifically prepared admixture that renders concrete completely waterproof and dustless and accelerates setting time.

No. 1 Metallic Liquid is a necessity for waterproofing cement renderings to walls and basements, in mass concrete retaining walls, foundations, flat roofs and tanks. You can rely on it to give complete satisfaction because IT IS THE ONLY PROOFER SOLD UNDER GUARANTEE.

LILLINGTON'S

Nº 1 Metallic Liquid

From **5/-** per gallon

Special terms for bulk contracts

Write for Booklet 50

ALL OUR PRODUCTS NOW SOLD IN FREE CONTAINERS

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Willow Lane, Mitcham, Surrey. Tel: Mitcham 1066. For Scotland: 42 High Street, Greenock

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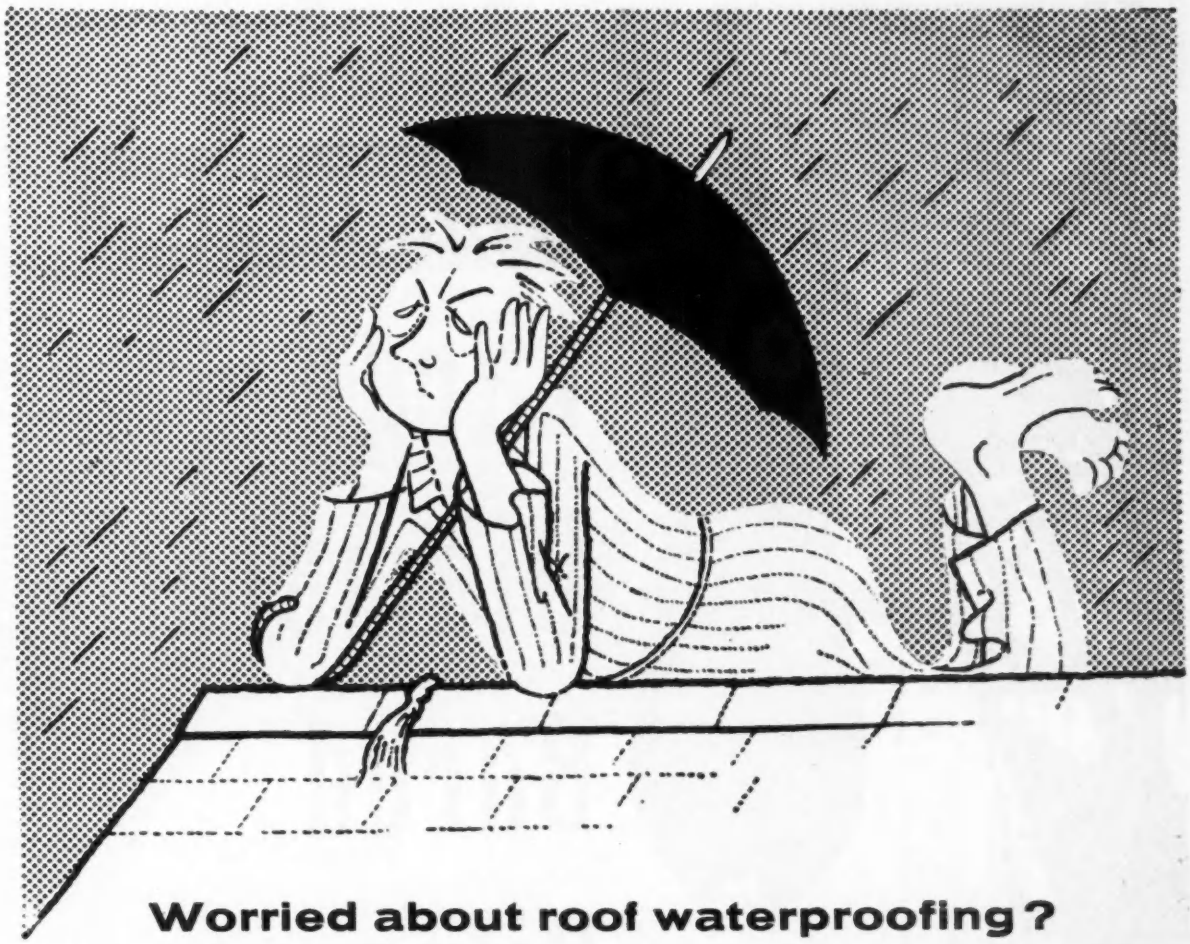

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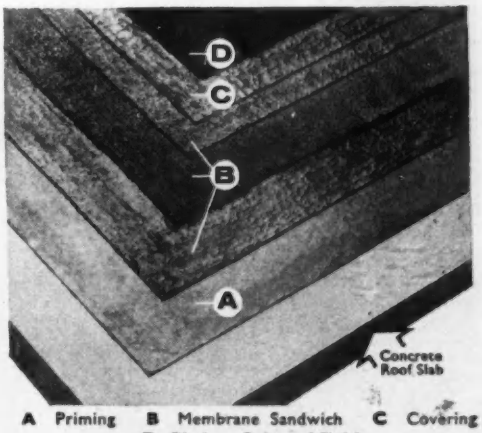
can be applied to any roof

Any roof can be treated * Permanent waterproofing for large or small roofs * Applied cold without preliminary treatment * Used and proved for over 25 years * Foreman demonstrators are available to assist your own workpeople or, if you prefer, our contracts department can undertake the work for you and provide free maintenance.



A Priming B Membrane Sandwich C Covering
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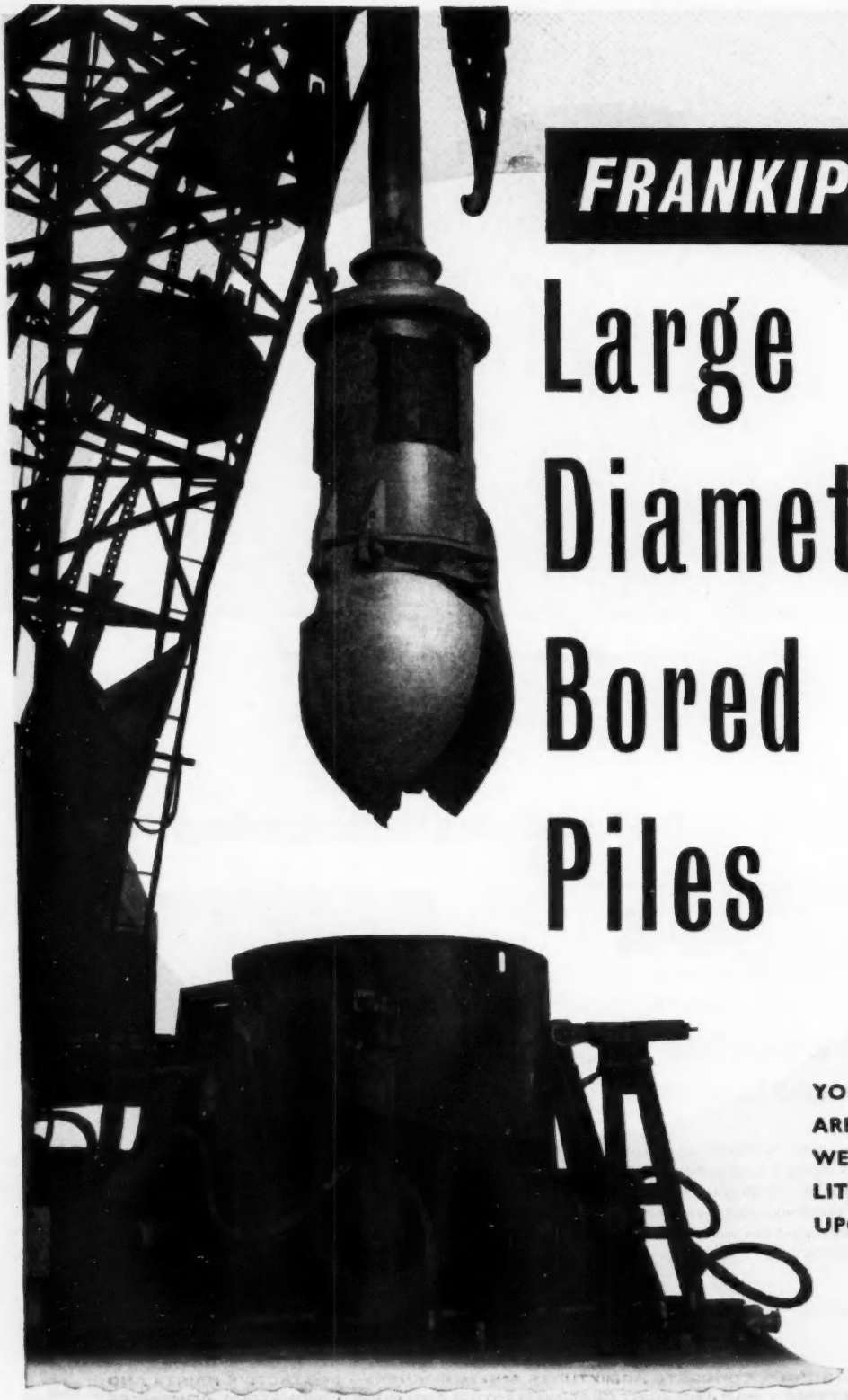
H-W.354



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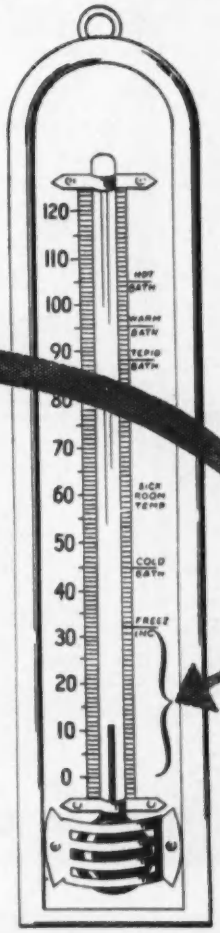
One lost week-end

Sandersons Fabrics New Factory Premises, Perivale, London. Contractors: Sims & Russell Ltd., Westminster.



The 1955-56 winter was the coldest for 10 years, and yet the erection of this factory continued throughout the winter months with only 2 DAYS LOST TIME.

FEBSPEED PLUS cement anti-freeze compound was incorporated in the bricklaying mortar, —allowing brickwork to be erected at temperatures down to 24°F. with the night temperature falling to 12°F.

That only the equivalent of a week-end was lost, was due to good organisation on the part of the contractor and the use of—

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THE CEMENT ANTI-FREEZE COMPOUND THAT ALSO PLASTICISES, WATERPROOFS AND RAPID HARDENS

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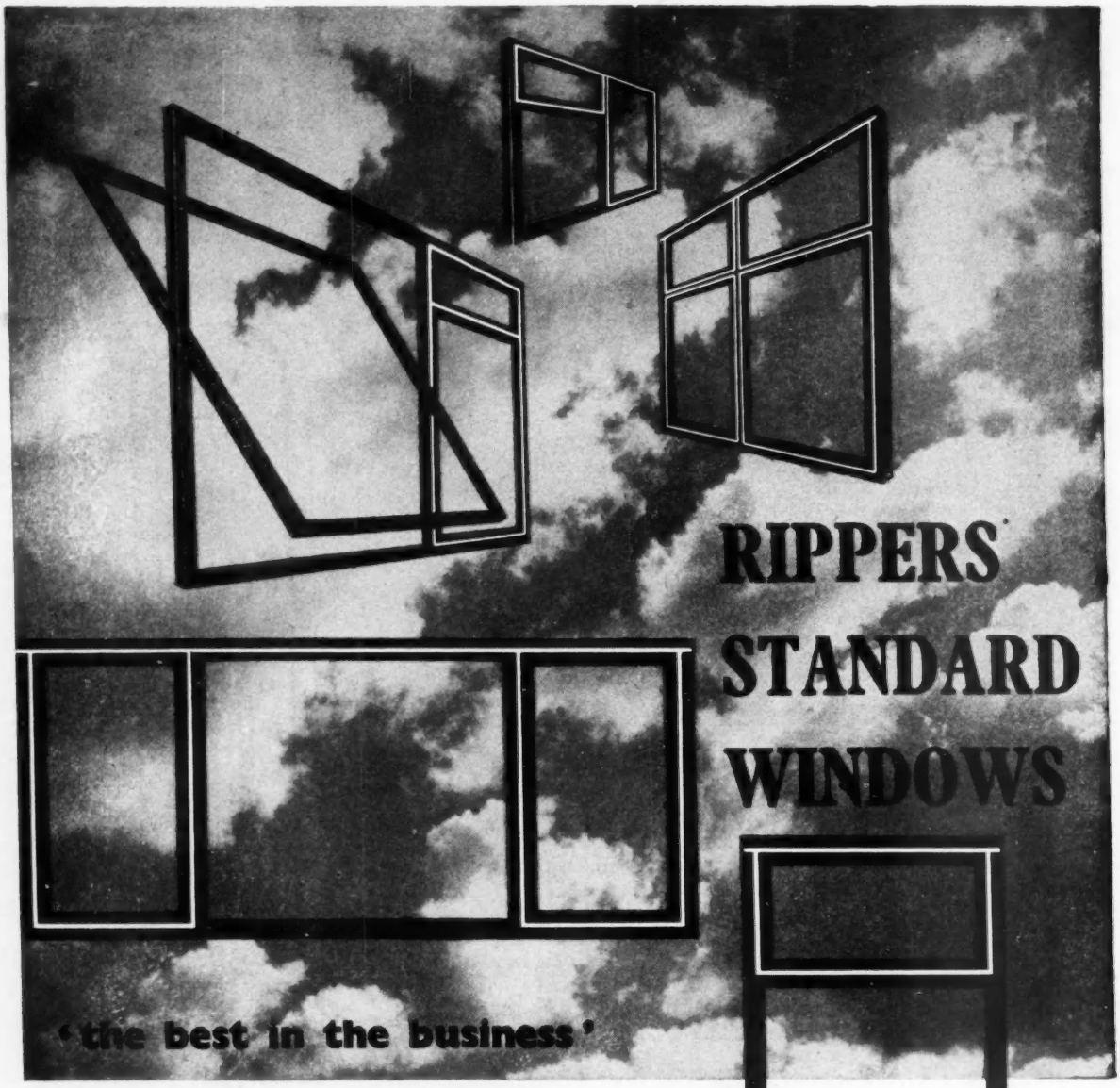

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Ferodo non-slip stairtreads bring to these modern stairs a clean line, maximum safety for the people who use them, and years of life without maintenance or renovation.

* *7 attractive colours*
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* *Aluminium, silver bronze or manganese bronze channels*
* *Special orders can be manufactured*

Write to our Stairtread Department for full illustrated literature for your file.

FERODO non-slip stairtreads

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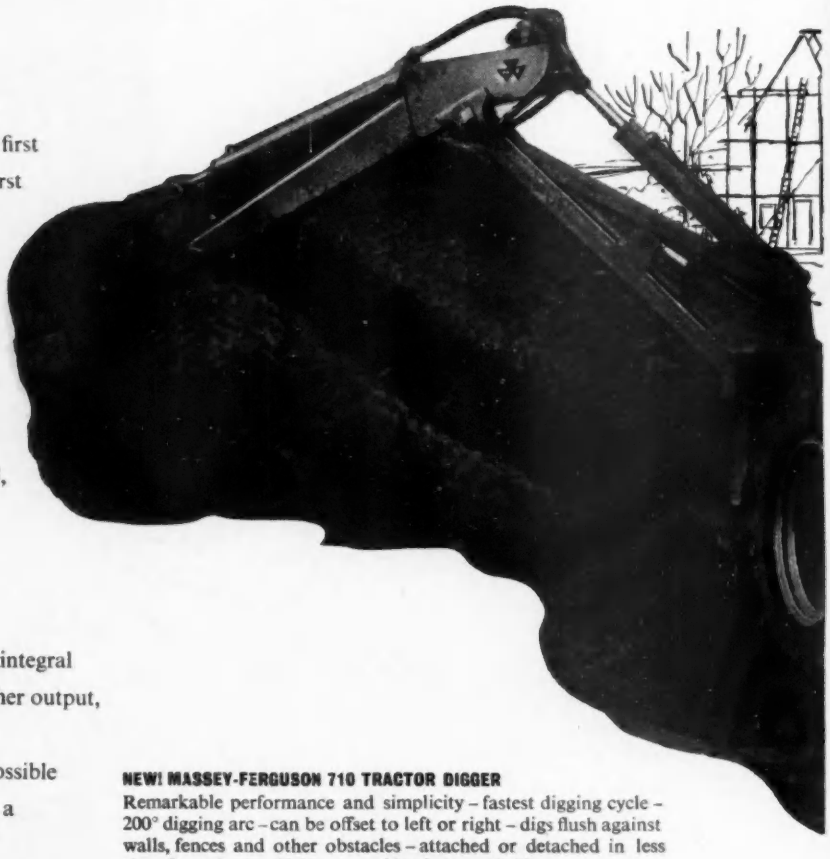
...with Britain's first complete

TRACTOR-DIGGER-



Once again Massey-Ferguson lead the way. Once again Massey-Ferguson introduce the first unit of its kind to be built in Britain—the first wheeled Tractor-Digger-Shovel designed as a complete unit and built, powered and serviced by a single manufacturer. This new rig has been developed and styled specially to meet the needs of builders, contractors, municipalities—in fact all industrial users who are looking for a low cost, highly mobile Digger-Shovel, with a faster working cycle than any comparable equipment.

The new Massey-Ferguson Digger and Shovel are operated by the same built-in hydraulic system. They work as an integral self-propelled rig, perfectly matched for higher output, lower working costs, and easier operation.

And Massey-Ferguson resources make it possible to market this superb quality equipment at a really economical price.

Your local Massey-Ferguson Industrial Distributor is fully experienced in servicing the complete rig and would welcome the opportunity to come out and demonstrate it on your site. His address and full technical information will gladly be supplied on request.

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Remarkable performance and simplicity – fastest digging cycle – 200° digging arc – can be offset to left or right – digs flush against walls, fences and other obstacles – attached or detached in less than five minutes. Full range of buckets available.

NEW! MASSEY-FERGUSON 702 INDUSTRIAL TRACTOR UNIT
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Tough, all purpose Shovel built round tractor for greater strength, better visibility and ease of operation. Range of buckets and Angle-dozer, Fork Lift, Scarifier, Jib extension.

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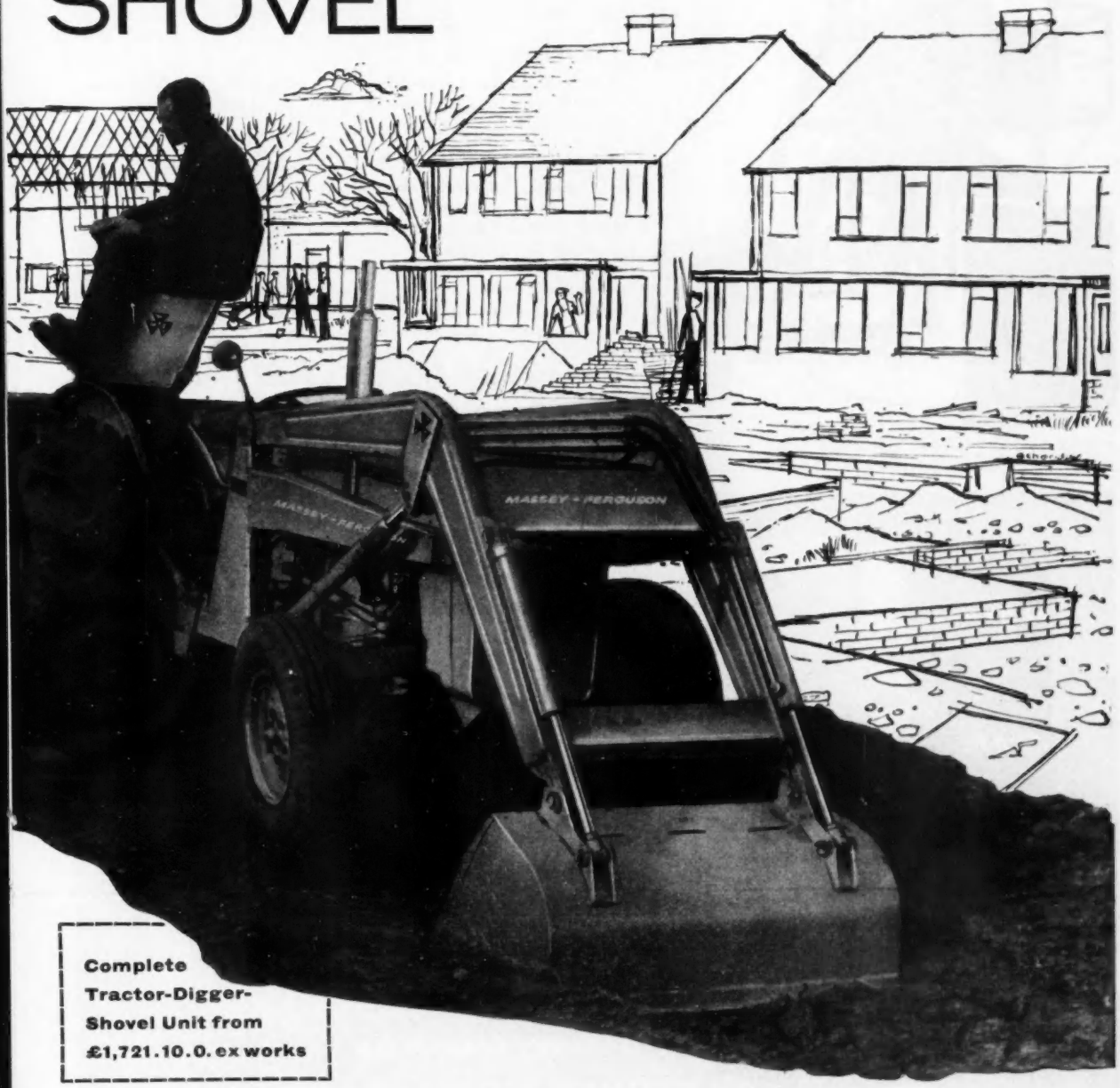

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CONTRA-FLOW FULLY AUTOMATIC PADDLE TYPE

MIXING PLANT

The Elevated Mixer and Skip are provided with electric controls and mixing and discharge of concrete is at the rate of 200 tons per day, and one operator only is required.

Mixing Trough capacity 15 cu. ft. mixed concrete, 30 batches per hour. Skip capacity 21 cu. ft. Pre-selection at ground level from a detached Control Panel, as illustrated, to operate **elevator, mixing, water-injection, discharge** and other controlled features.

In the TRIANCO Contra-Flow Duplex Mixer the aggregates are subjected to helecoidal, vertical and horizontal motion hence providing a minimum mixing time—maximum strength—and a thorough homogeneous uniform mix. For further particulars write to:

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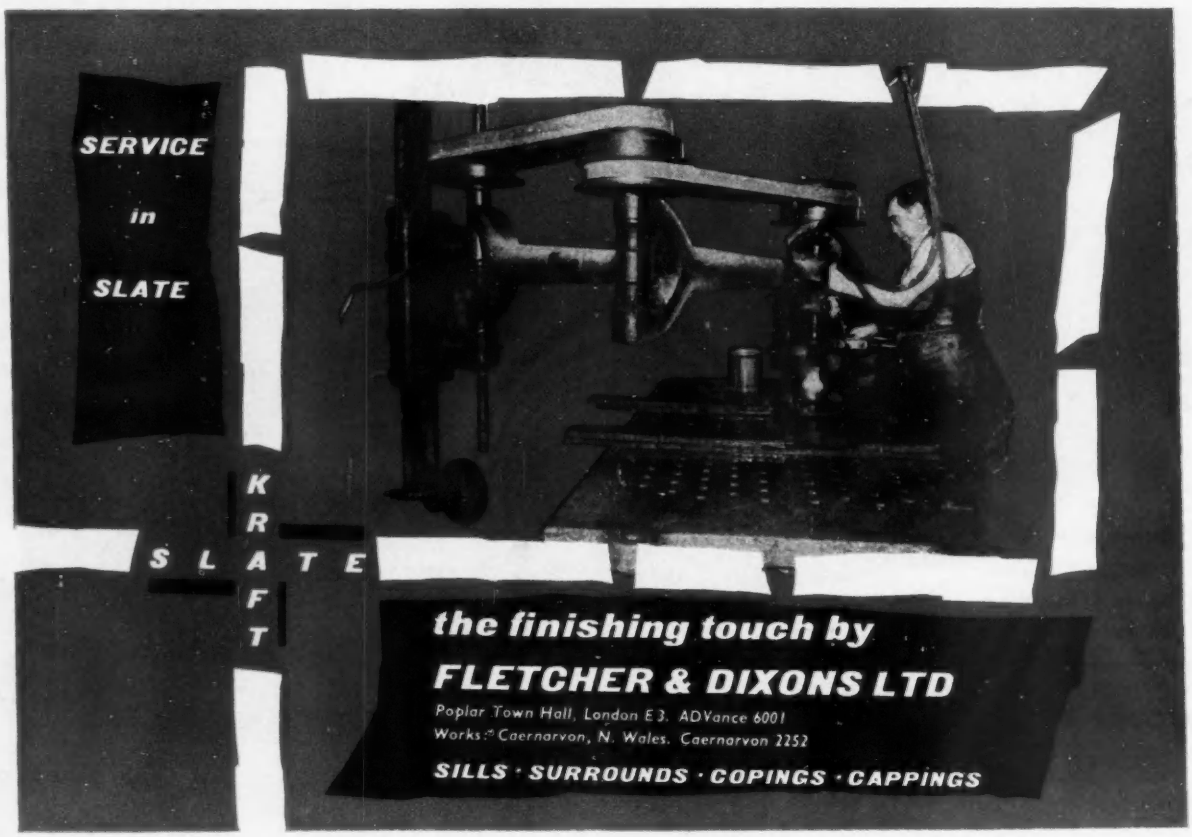

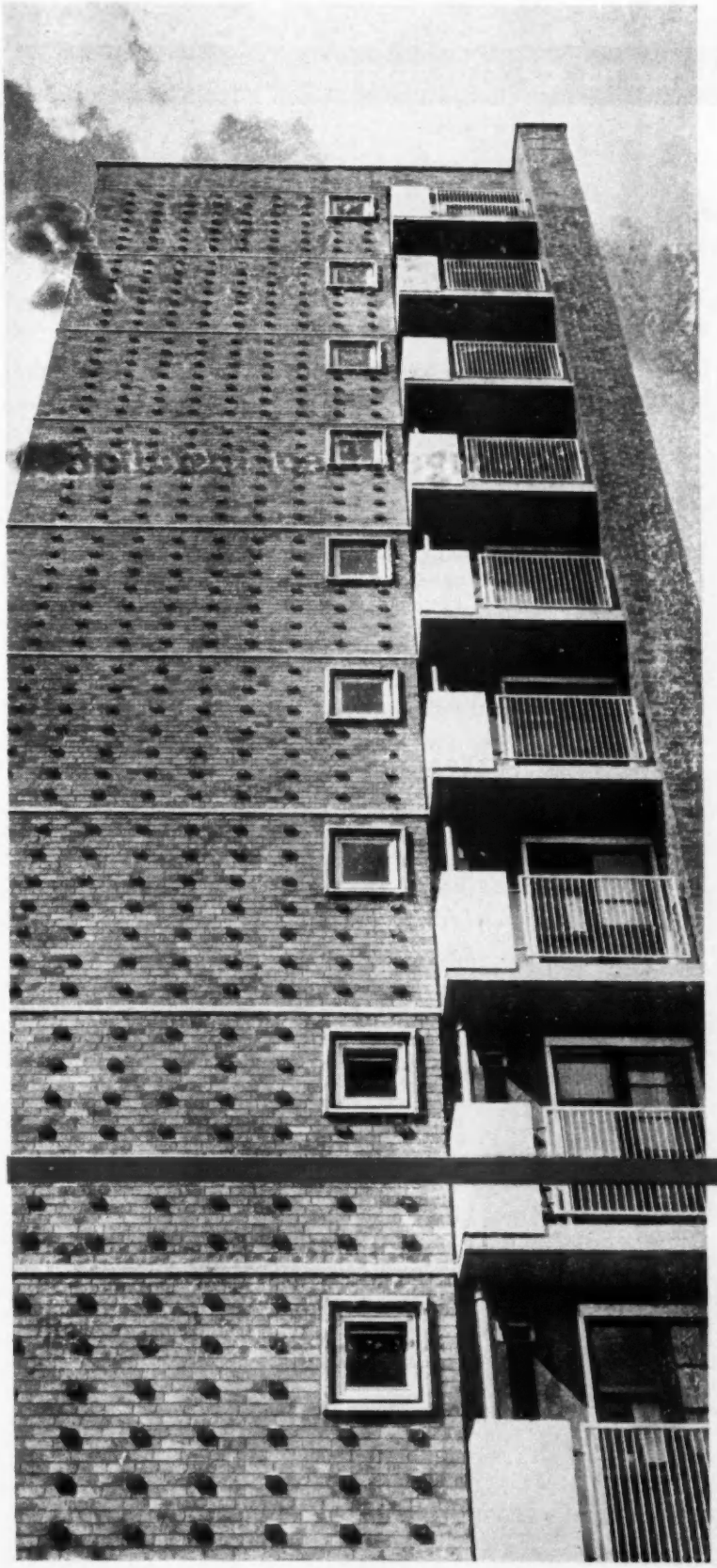

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Architect: R. Bradbury, PHD, FRIBA, AMTPI, City Architect & Director of Housing

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ACE SKYMASTER

MAN-CARRYING HOIST

Packaged Deal Installation

The New ACE Skymaster Mk. II—man-carrying hoist—is designed for installation on multi-storey apartment contracts for the speedy conveyance of supervisory staff and workmen.

The new Skymaster is supplied as a **COMPLETE INSTALLATION**—a sound economic investment to the contractor.

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ULTIMATE LANDING HEIGHT IS WELL OVER 250 FT.

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Full specification of the ACE "Skymaster" Mk. II will be gladly supplied on request. Ask also for details of other products in the popular range of ACE Construction Equipment, the "LOADMASTER" Concrete Elevator, "COMET" Mobile Hoist, "HUMDINGER" Poker Vibrator, "DALLI" Handscraper, and "BOMAG" Vibrating Rollers.

ACE SERVICE: **'Service to the customer', that's the key phrase of the ACE Service Department, unrivalled for its courtesy, efficiency and speed.**

The photographs of the ACE Skymaster featured in this advertisement were taken by the kind permission and with the full co-operation of William Moss & Sons Ltd. at the Flyover House site, Gt. West Road, Middlesex.

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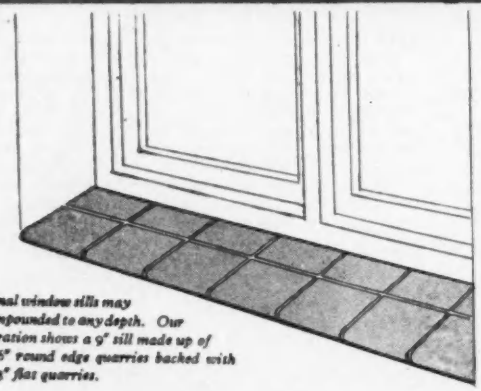

Internal window sills may be compounded to any depth. Our illustration shows a 9" sill made up of 6" × 6" round edge quarries backed with 6" × 3" flat quarries.

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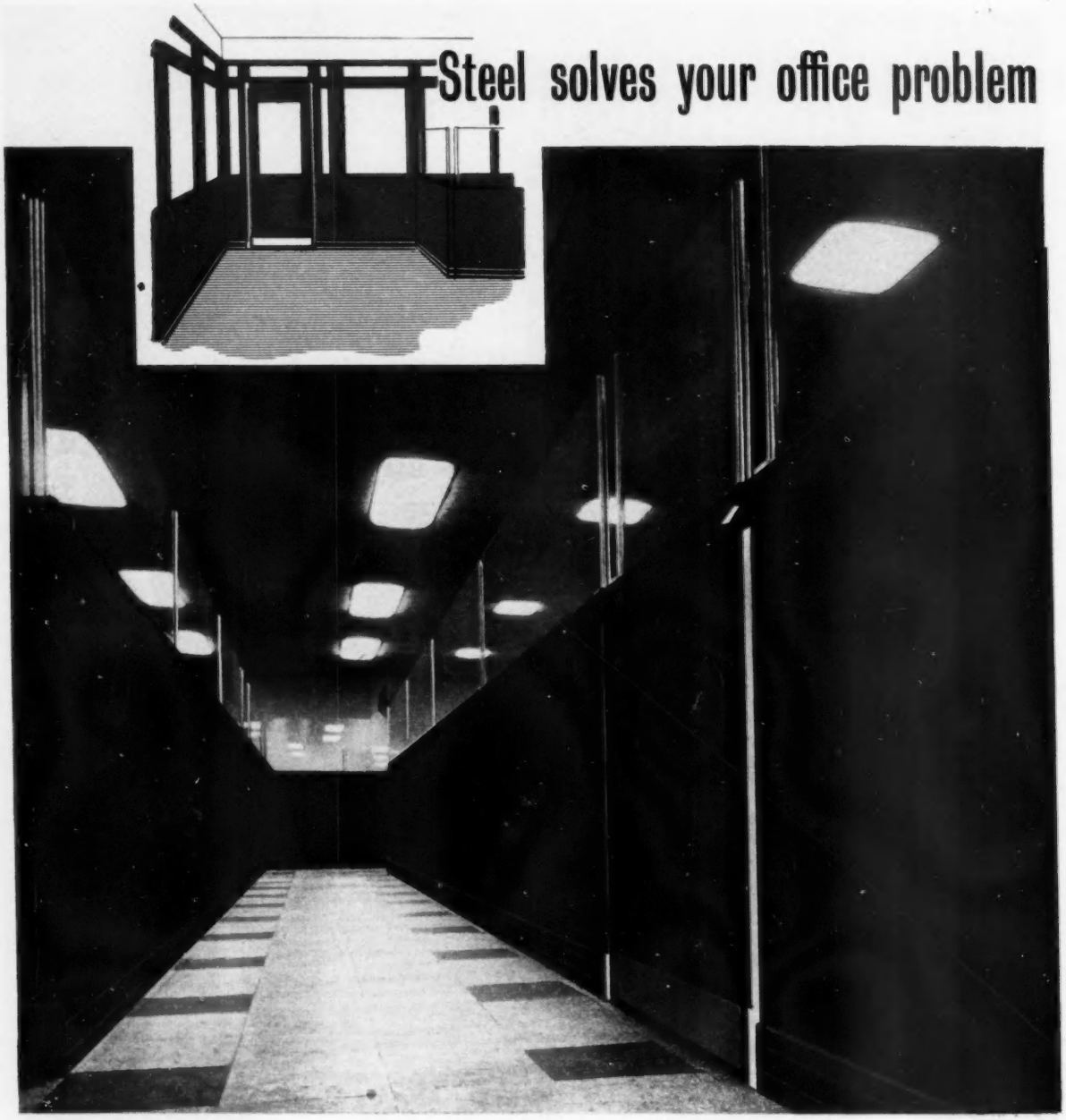
Steel solves your office problem



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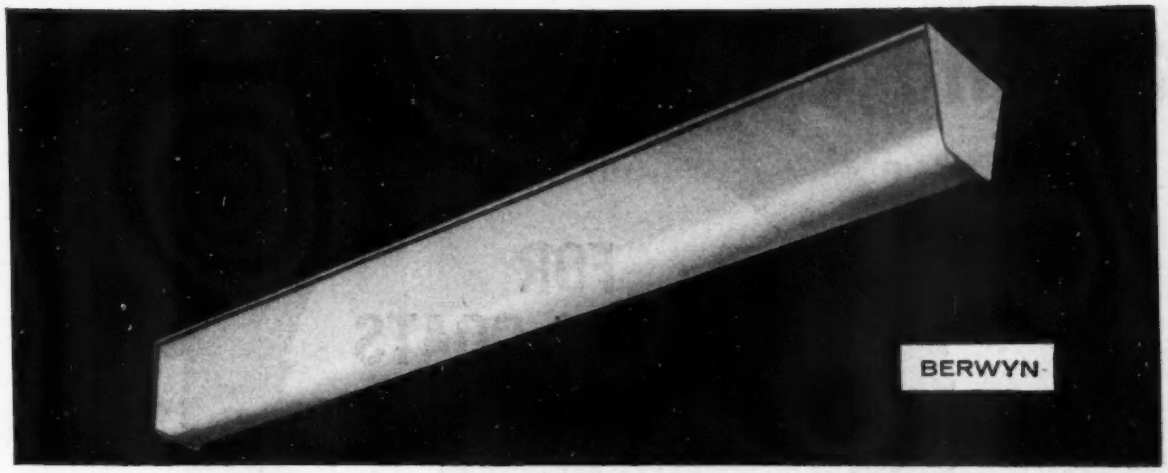

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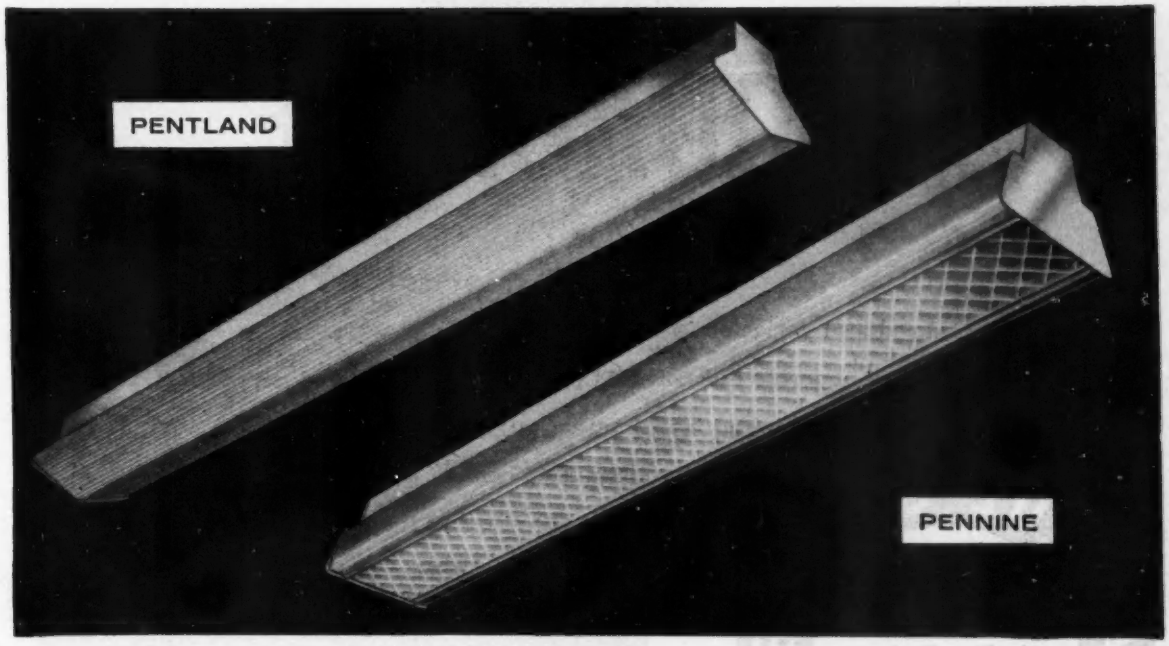

The comprehensive FALKS range of fluorescent fittings includes Vapour Resistant types, Seagulls, Standard and Simplified Battens, the well-known, decorative "Thames" range and Recessed Modular types for use with suspended ceilings.

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Aquacrete is Portland Cement with which Medusa waterproofing compound is intimately mixed during manufacture.

It saves time mixing cement and waterproofing compound on the site and there is the assurance that the correct proportion of Medusa has been added and uniformly distributed throughout the cement.

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Aquacrete is one of the Blue Circle aids for better building

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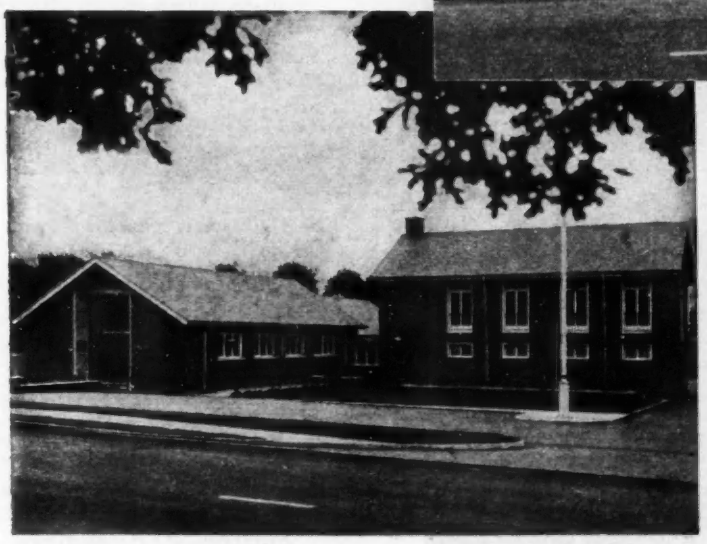
Ibstock Red Sandfaced FACING BRICKS

were chosen for this modern Police Station

designed to blend with its natural surroundings in the old-world village of Ampthill, Bucks.



Architect :

Vincent Goodman, F.R.I.B.A.,
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Builders :

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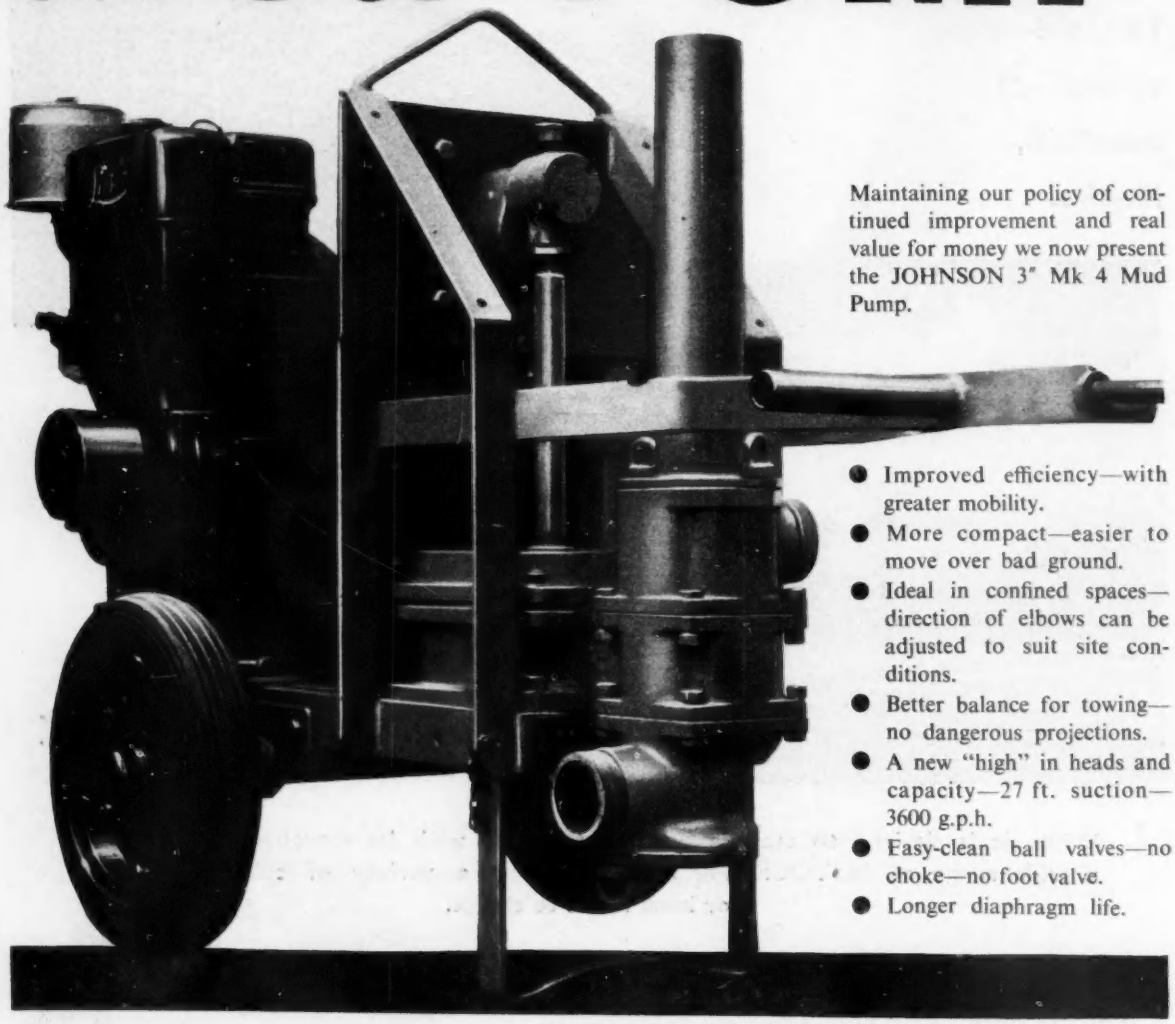
MUD PUMP



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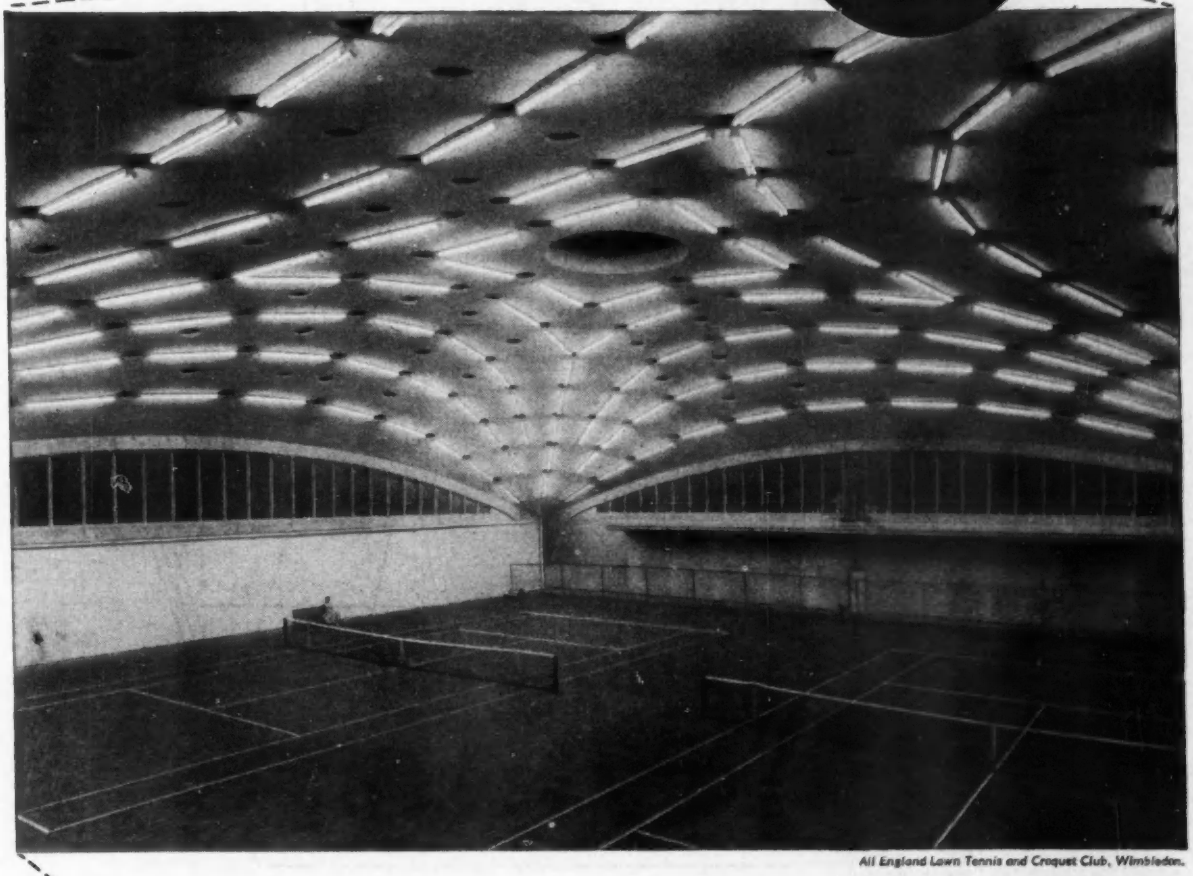
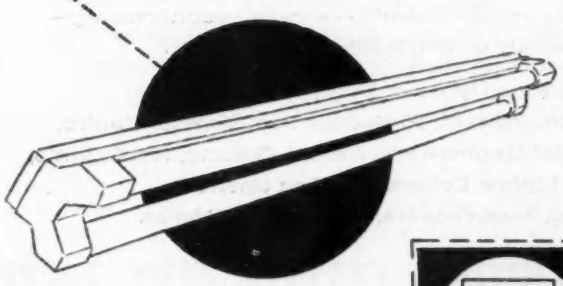


All England Lawn Tennis and Croquet Club, Wimbledon.



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P 27a3

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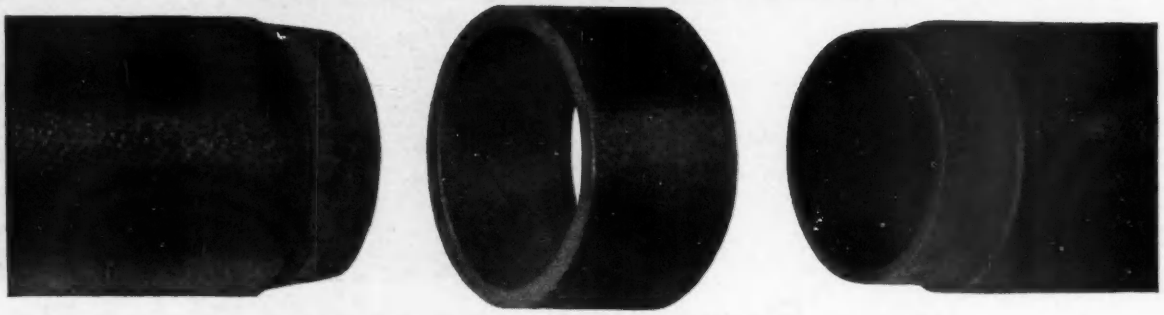

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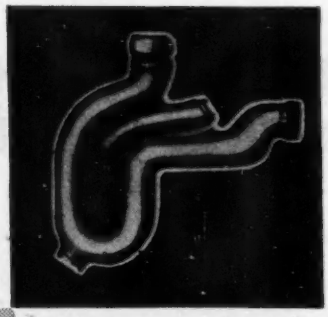

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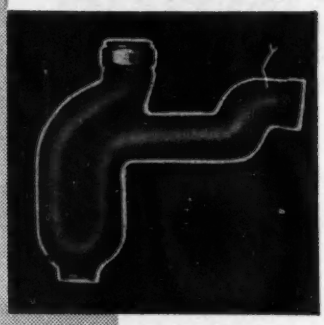
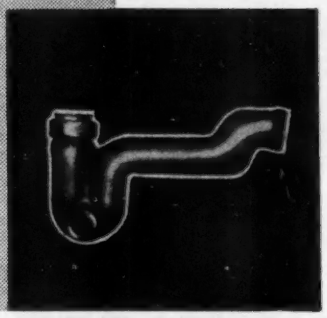
The GREVAK 'Senior' 'P' or 'S' type model retains its seal on very severe siphonic 'pulls'. It is strongly recommended for use on large installations, e.g. hotels, blocks of flats and batteries of basins.



GREVAK JUNIOR

The GREVAK 'Junior' 'P' or 'S' type model is a highly efficient anti-siphon trap suitable for smaller installations such as housing, small cloakrooms, etc.



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GREVAK anti-siphon traps are available in cast iron, cast alloy, brass, copper and lead, in sizes ranging from 1" up to 2" in cast metals, and 1" up to 3" in lead.

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6 m/m.	215 ,,	– – (17) – –	48″ × 96″
9 m/m.	68 ,,	– – (11) – –	48″ × 96″
	20 ,,	– – (15) – –	60″ × 60″
	50 ,,	– – (20) – –	52″ × 52″
12 m/m.	40 ,,	– – (8) – –	48″ × 96″
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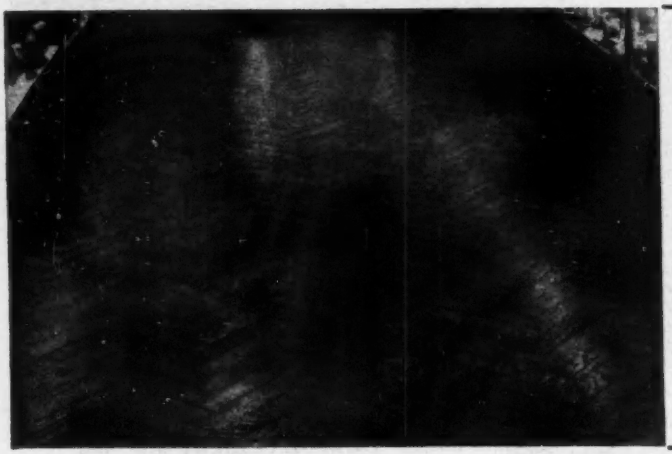
SPOSS floor seal

to preserve, protect and enhance their appearance



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Faced with the problem of protecting their wood block floors from the continual wear and tear of thousands of shoppers daily, a famous London store decided to experiment with Sposs Floor Seal and Sposs Liquid Dressing. Not only protection was required—an attractive finish, easy maintenance and a non-slip surface were factors of prime importance. The high standards of finish and performance required were achieved satisfactorily as the unretouched photograph on the left shows. No special treatment was given to the floor before this photograph was taken: Sposs Dressing had been applied 2 to 3 weeks before and normal daily maintenance had been carried out.

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PERMANENCE: Once a floor has been sealed with Sposs it is protected throughout its life. Subsequent maintenance with Sposs Floor Dressing is all that is required—further applications of seal are quite unnecessary.

PENETRATION: The Seal penetrates the surface and combines with the top fibres of the floor, forming a hard, waterproof skin which protects and preserves porous surfaces.

FINISH: Although not in itself a polish, Sposs Floor Seal will dry with a pleasing gloss. An application of Sposs Floor Dressing will combine with the Seal to produce a brilliant, non-slip and easily cleaned surface.

SPECIAL PROPERTIES: Sposs Floor Seal is quick-drying (4 to 6 hours, or less, according to weather). It is available in Light Oak, Dark Oak, Red and Natural colours. Can be used to revive old floors with an open grain.

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SB/1

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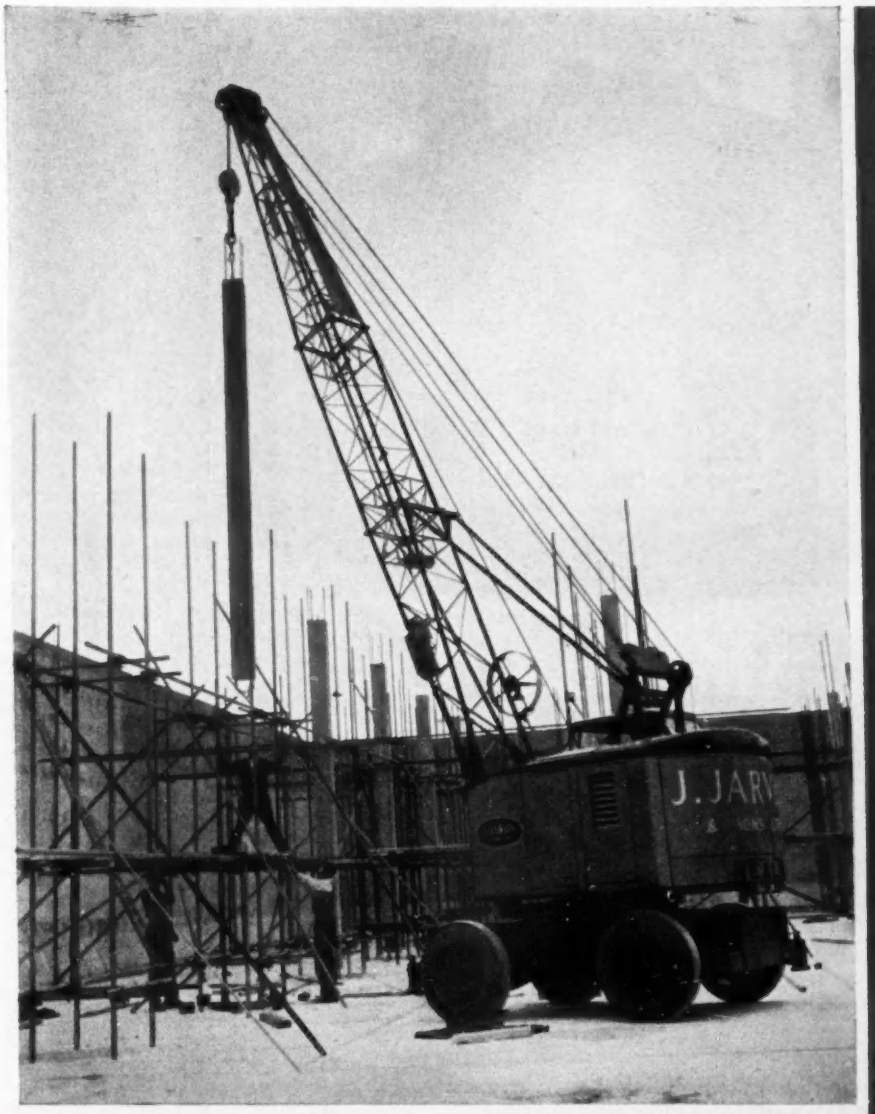

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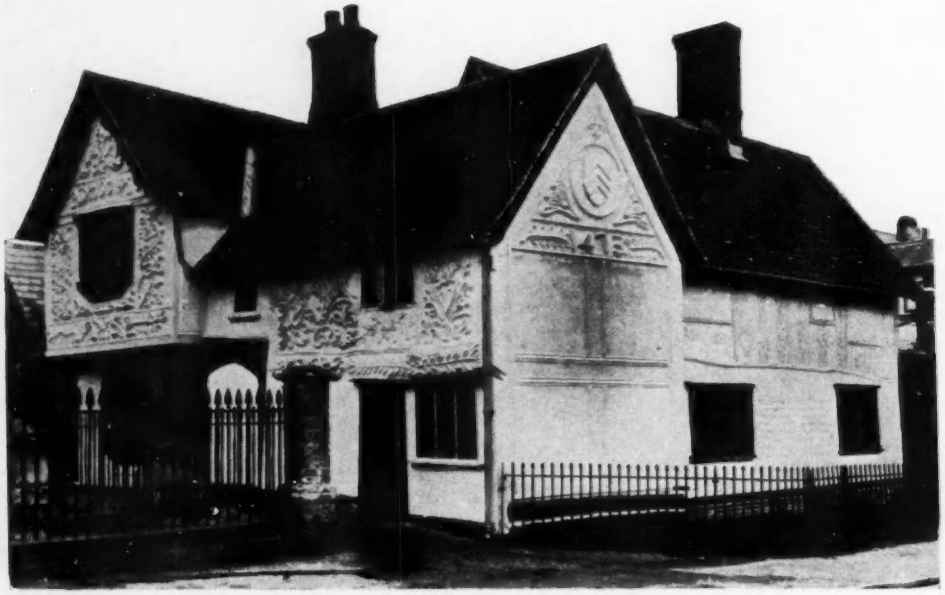

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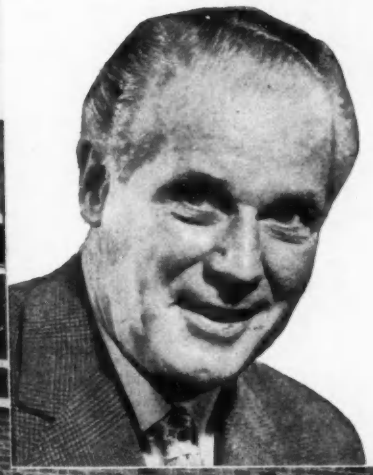

- *the name is synonymous with quality.*
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- *the reinforced leaves are heavily Sherardised.*
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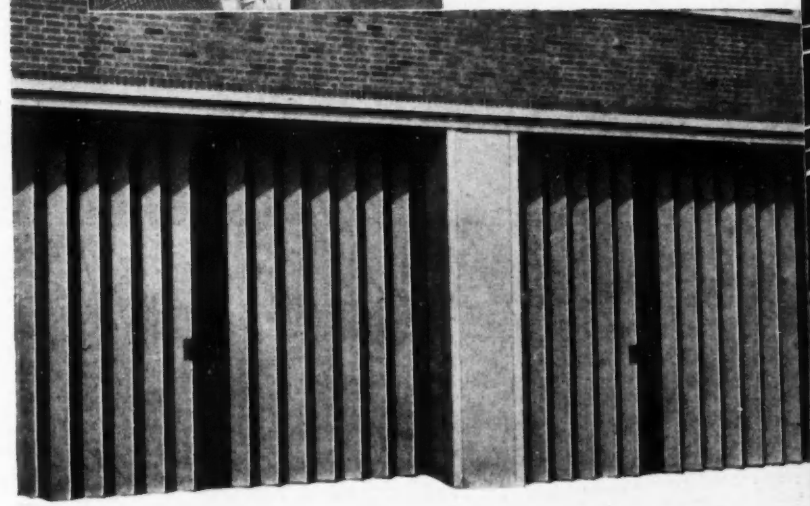

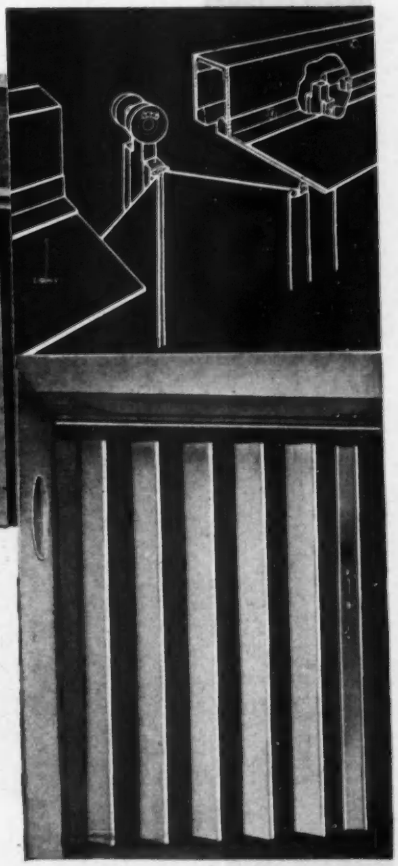

Bolton Patent Shutter Doors are made to any size and electrical operation opens the largest door in seconds. Control systems include photo-cell, floor-pad and push button. The fireproof Bolton Patent Shutter Door, bottom right, gives Grade 'C' fire protection. Full information available under Ref. B328

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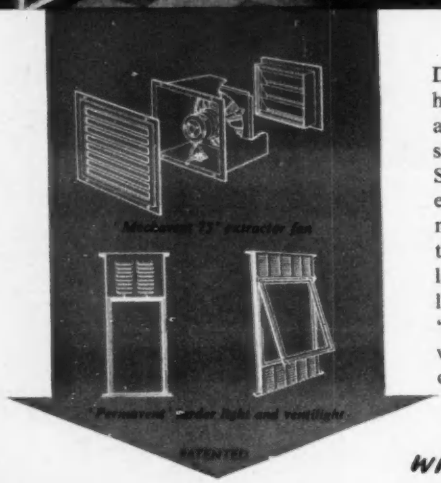
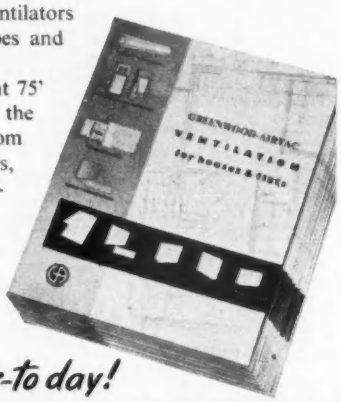
(above) 'The Cricketers,' Woodford—Architect: C. P. Sapin, (Chief Architect) McMullen & Son, Ltd
(left) photograph by courtesy of Turner and Kitching A.A.R.I.B.A., Gravesend

for Houses & Flats



Designed for efficient ventilation of the modern home, Greenwood-Airvac housing ventilators are available in a wide variety of types and sizes to suit any requirement.
Shown above—the powered 'Mechavent 75' extractor fan with kitchen canopy and the natural 'Permavent' larder-light—are from the extensive range of window ventilators, larder lights, skylights and wall ventilators illustrated in the new folder—'Ventilation for Houses and Flats'—which we shall be happy to send you on request.



write for this new folder-to day!

Greenwood-Airvac ventilation

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THE MILLBANK DEVELOPMENT PROJECT, being carried out by the Legal & General Assurance Society for Messrs. Vickers Ltd, is situated between the Tate Gallery and Lambeth Bridge.

Height of Tower Block 387 ft. **Total number of bored shaft piles 495**

Number of storeys ..... 32 **Maximum depth 95 ft**

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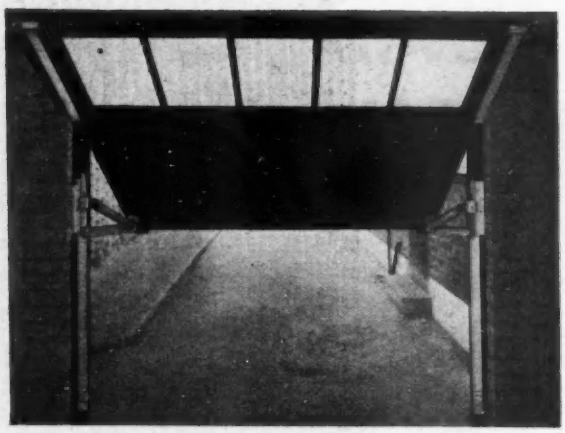

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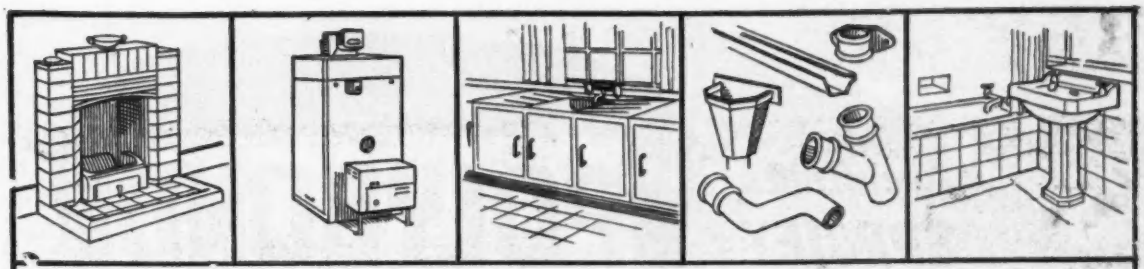

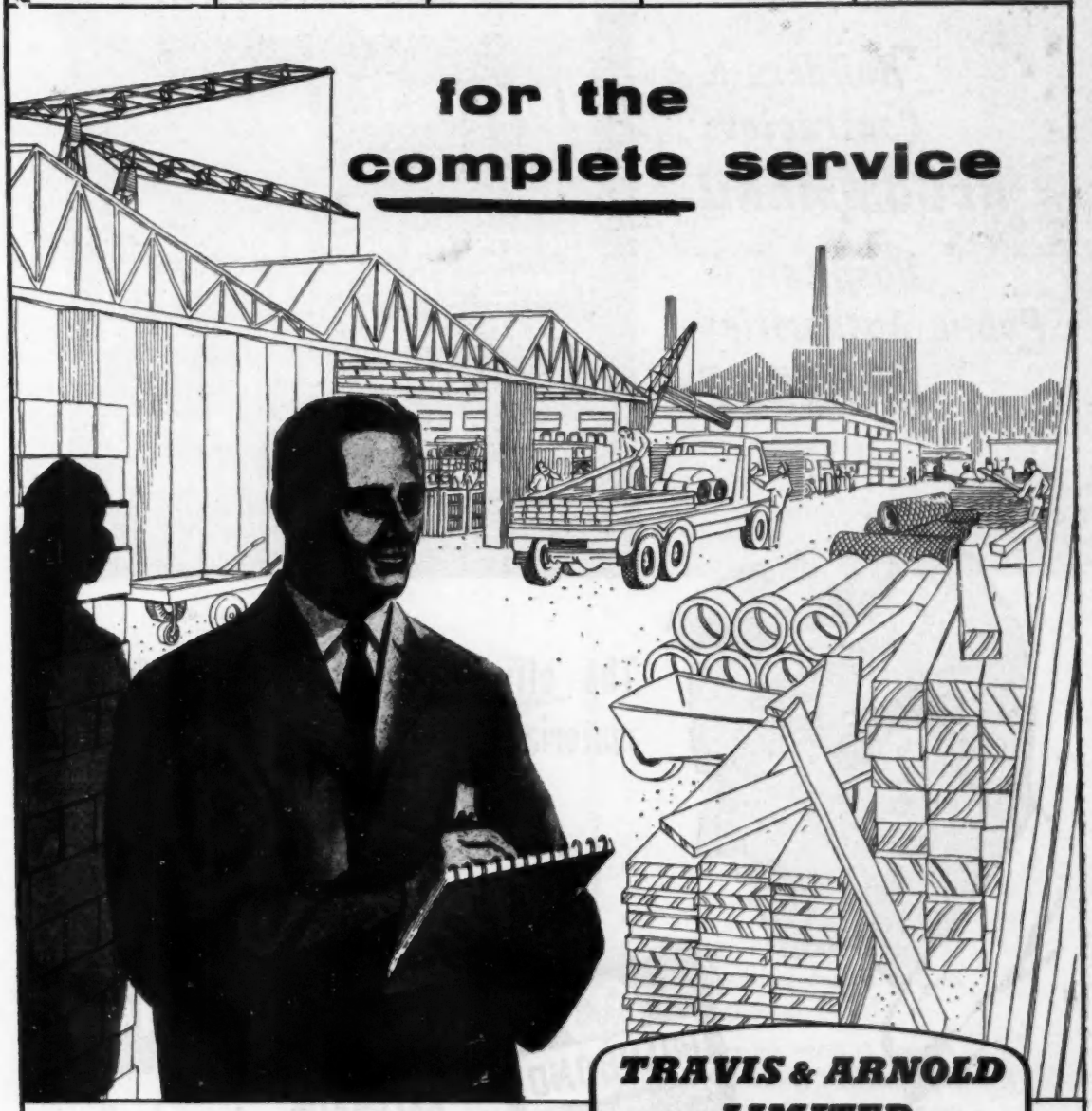

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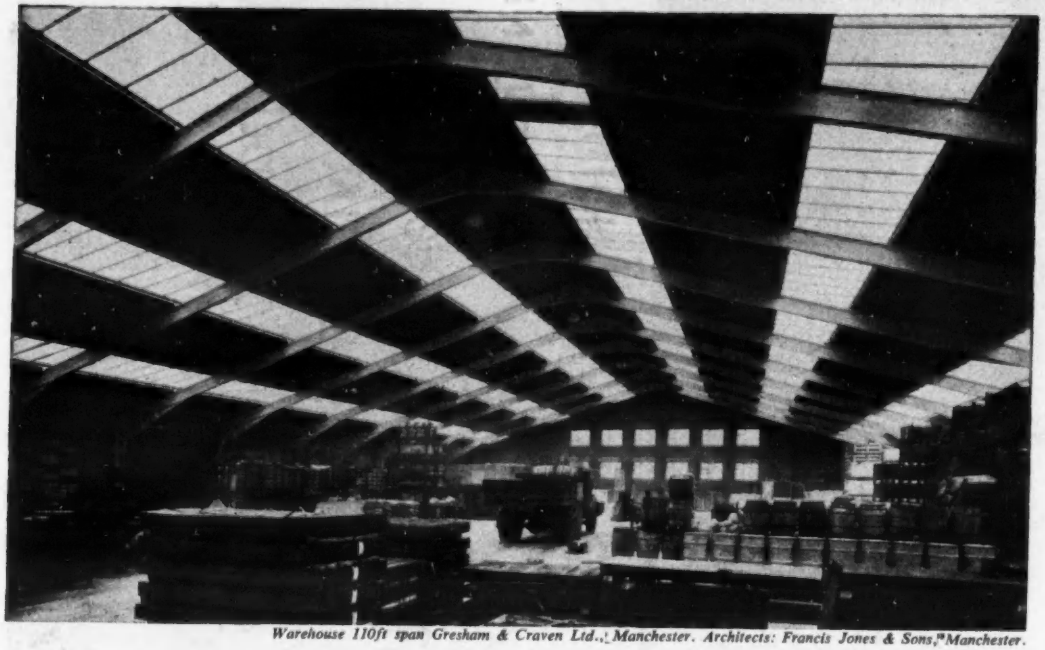

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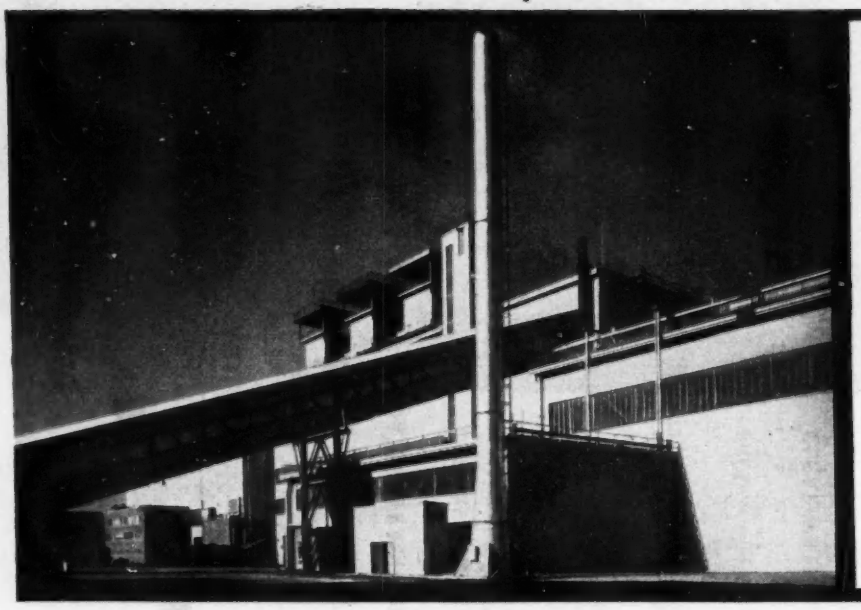

New buildings for the Steel and Tinplate Divisions of The Steel Company of Wales Limited—Abbey Works at Port Talbot and Velindre Works at Swansea.

Architects:
Sir Percy Thomas & Son, Cardiff, Swansea and Shrewsbury.

Consulting Engineers:
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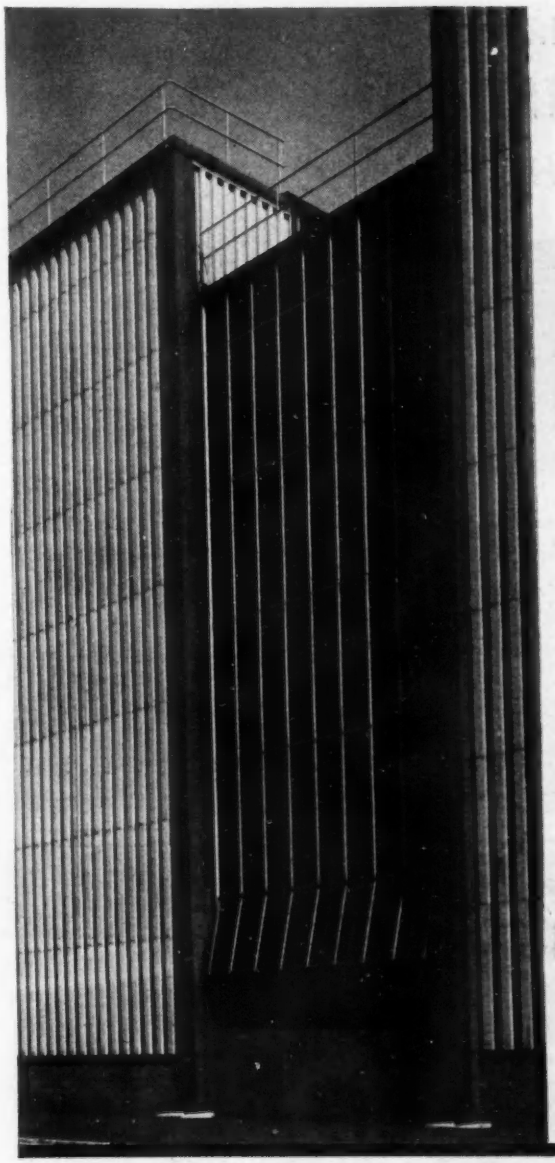
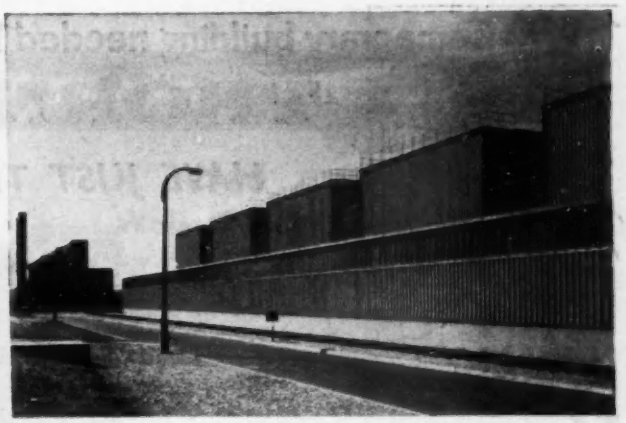
The Steel Company of Wales works at Port Talbot and Swansea are among the best known post-war industrial developments. What is perhaps less well known is the part aluminium played in their construction. Williams & Williams ALUMINEX PATENT GLAZING was chosen for its speed of erection, favourable balance between prime and maintenance costs, and the ease with which broken panes of glass can be replaced at any time.





Continuous Aluminex Sidewall Glazing on the east side of the shipping bay, Velindre Works. The roofs of both Velindre and Abbey Works are "high-low" constructed—the transverse clerestories are fitted with Aluminex continuous opening lights for extra daylight and ventilation.

Close-up of Aluminex Sidewall Glazing on the west side of Velindre Works.

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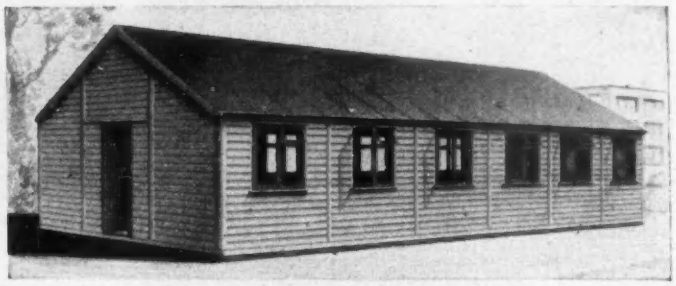

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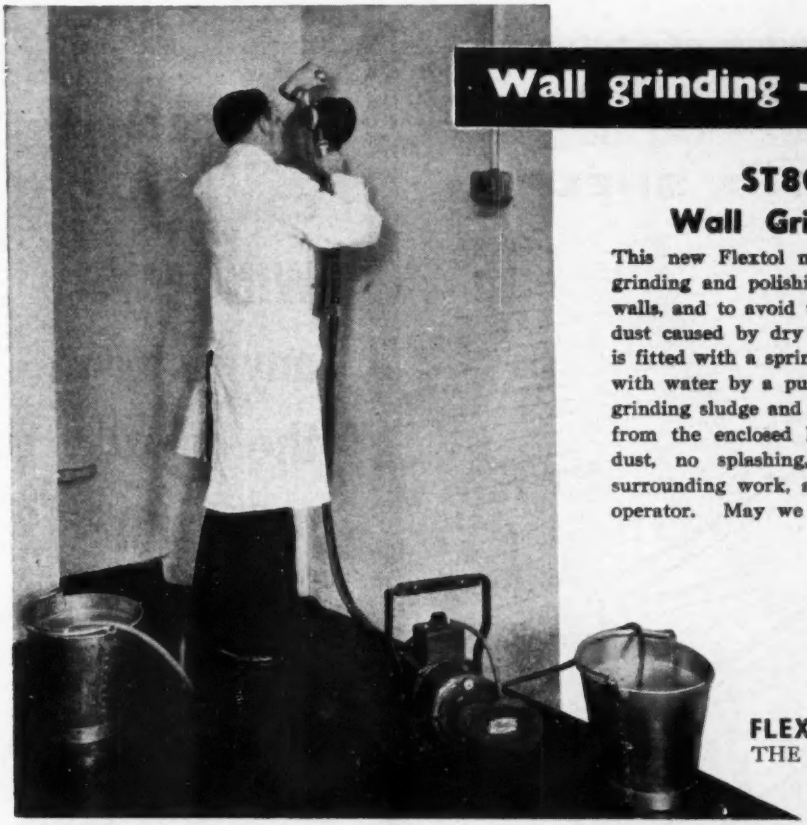

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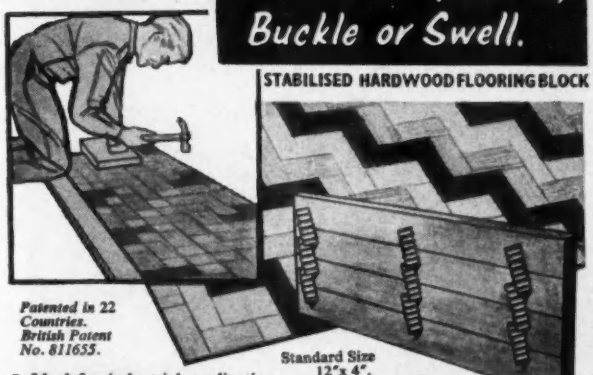

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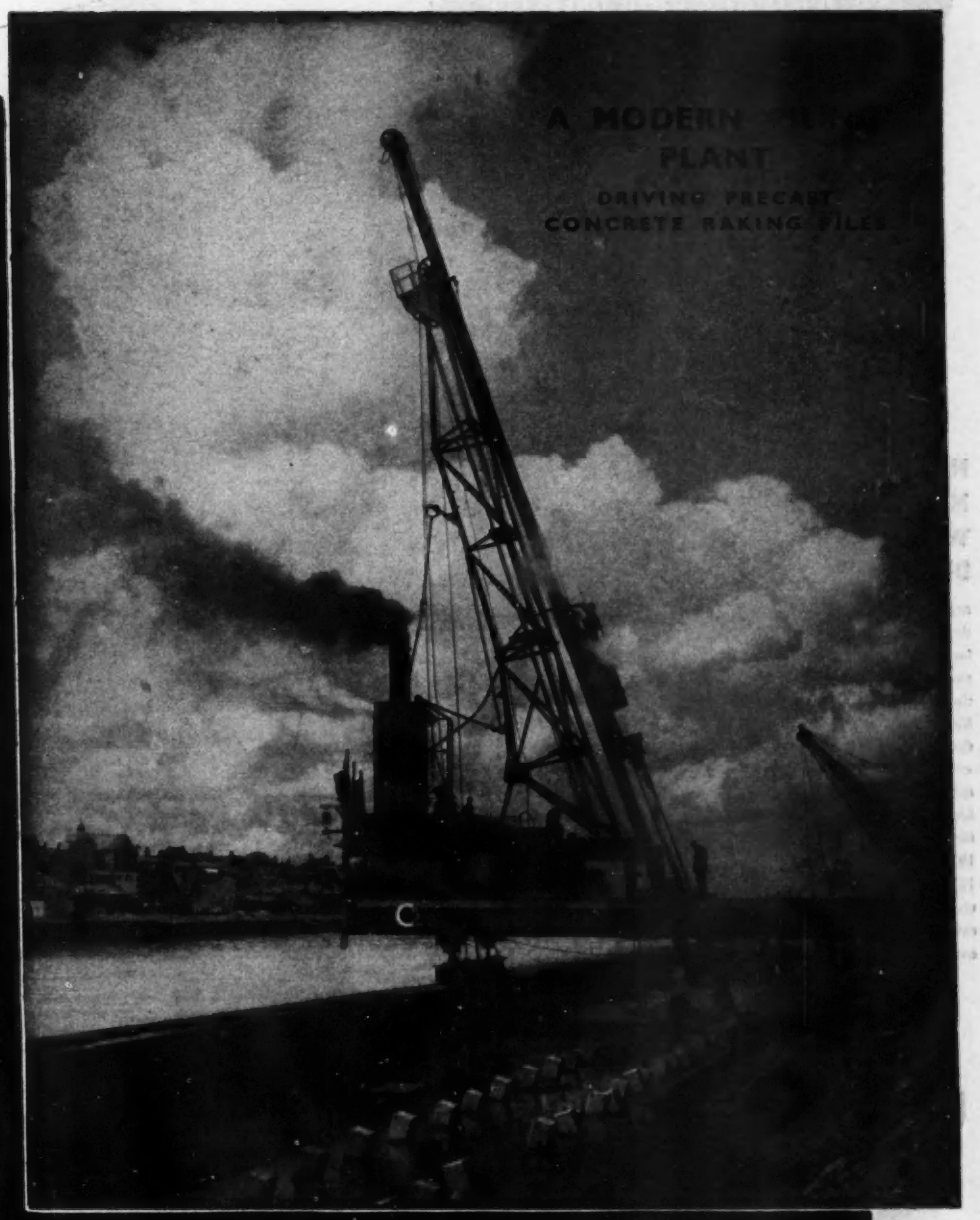

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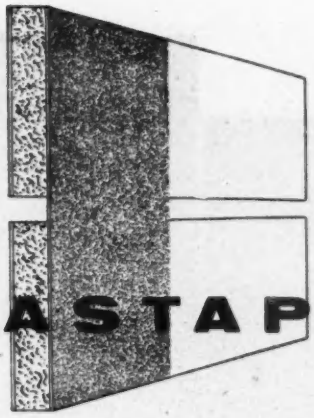

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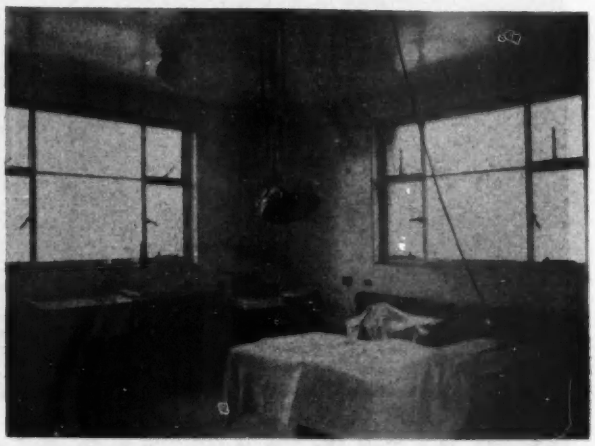

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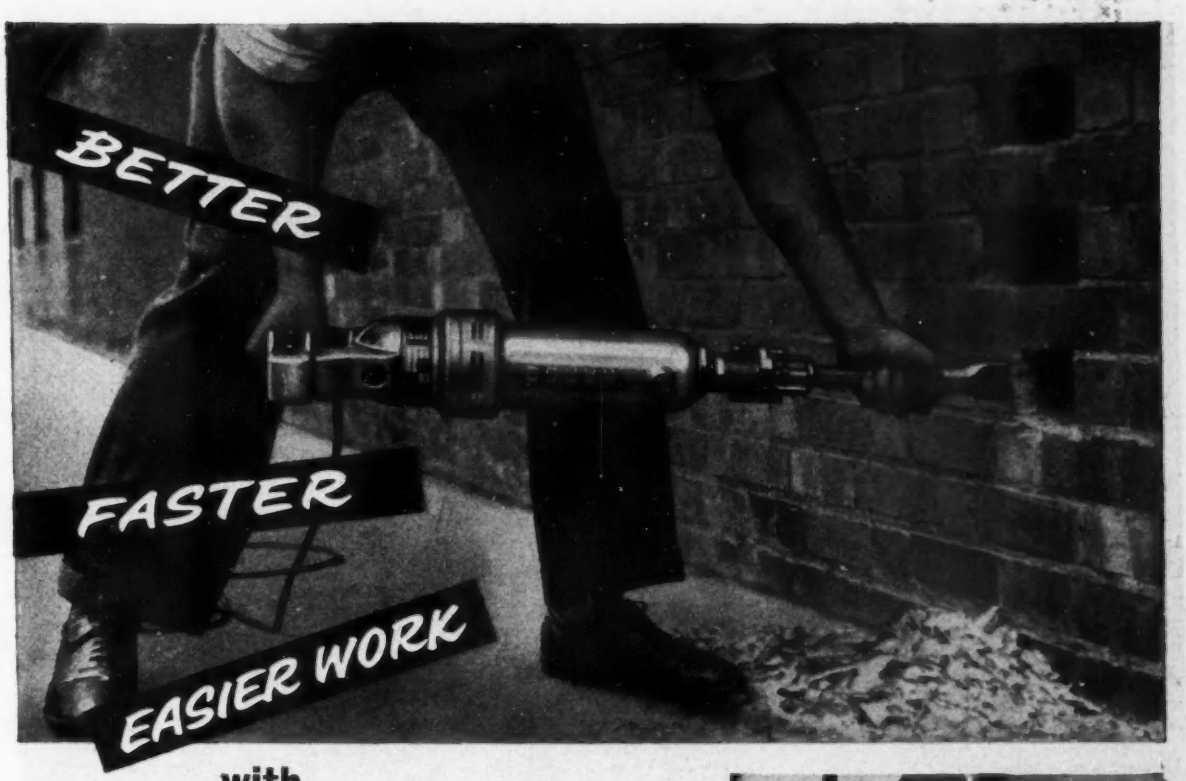

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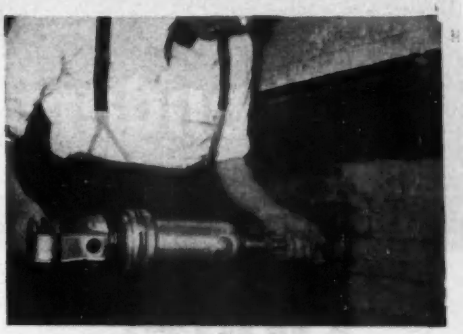

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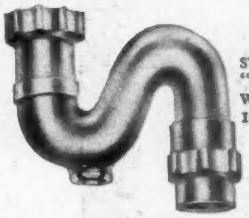

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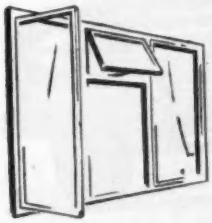

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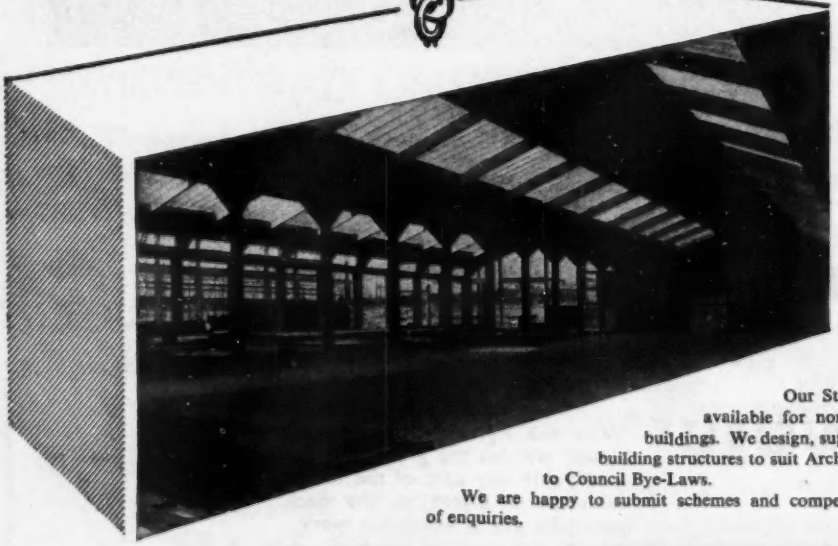

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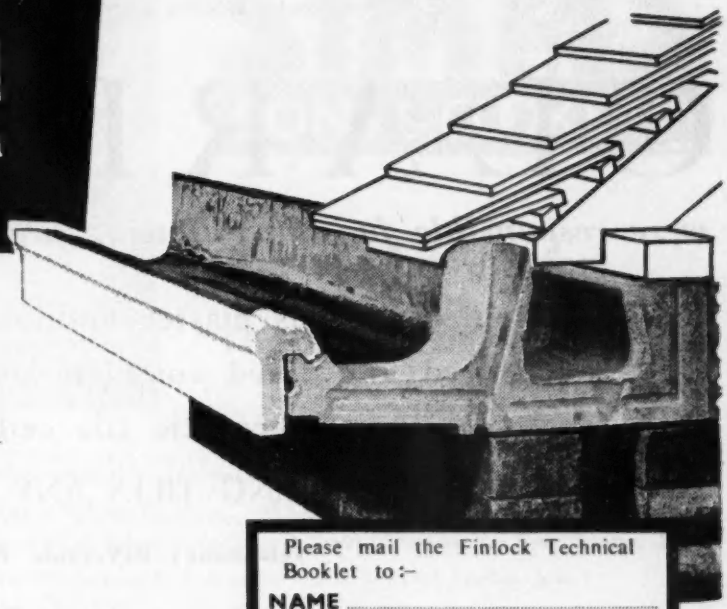

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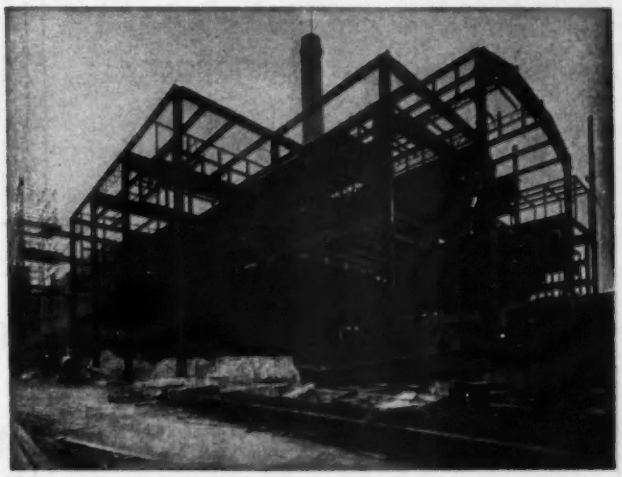

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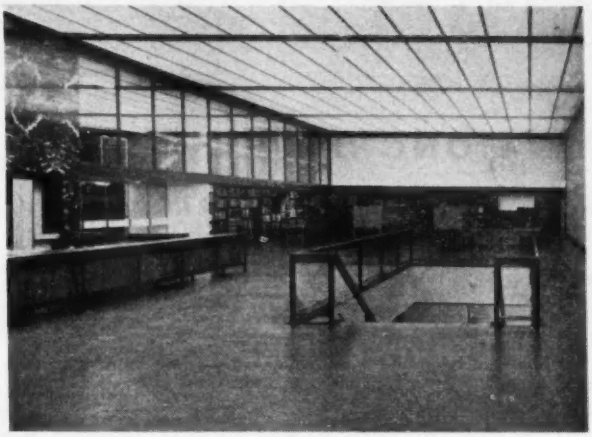

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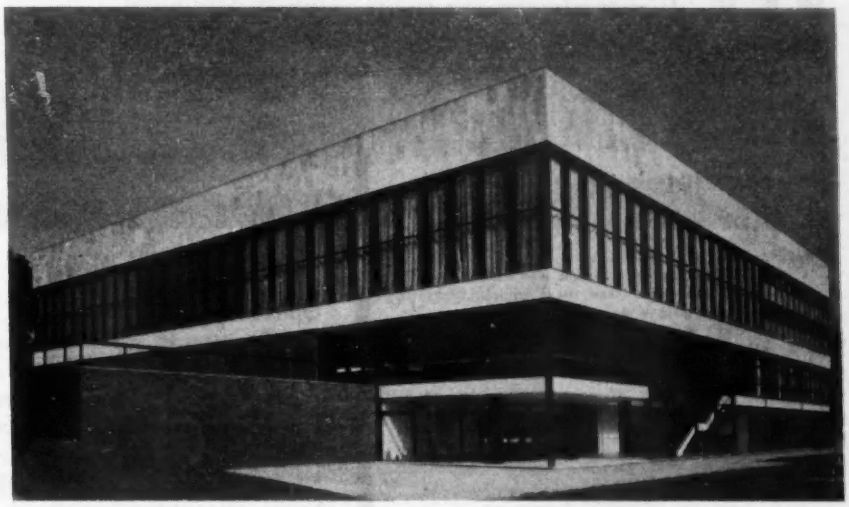

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Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CXCVIII. March 4th 1960 No. 6094

Published from 'The Builder' House, Catherine-street, Aldwych, London, WC2. Telephones: Temple Bar 6251-2-3-4. Annual subscription: £4; for six months £2. Single copies (including back numbers up to 12 months old) 1s. 6d. (post paid 2s.). Indices free on application.

News Summary

457 *The City and Guilds of London Institute is to provide a special qualification for 'workers up' in quantity surveyors' offices.*

458 *The first issue of 'UIA,' organ of the International Union of Architects, gives the results of two international competitions.*

459 *The resignation of the Works Manager of Manchester's direct labour department is called for in a report of the Corporation's Town Hall Committee.*

461 *Planning permission will in future be required for all large agricultural buildings and also for the change of use of a shop for the sale of motor vehicles.*

461 *'Virtually all civil and constructional engineering work' will be included in new safety regulations which the Minister of Labour hopes to make before Easter.*

463 *The Court of Common Council approved the erection of a seven-storey building for offices and shops near St. Paul's Cathedral.*

464 *The Board of Trade index of basic materials shows that the two years 1958 and 1959 were the most stable for prices since 1949.*

465 *Stage I of the proposed new commercial vehicle factory to be constructed on the south side of the River Mersey by Vauxhall Motors Ltd. is estimated to cost £30m.*

'Late News' will be found overleaf, and 'News of the Week' on page 457.

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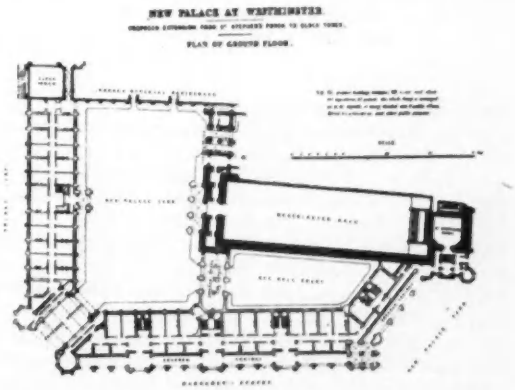

Sir Charles Barry's proposed extension plan

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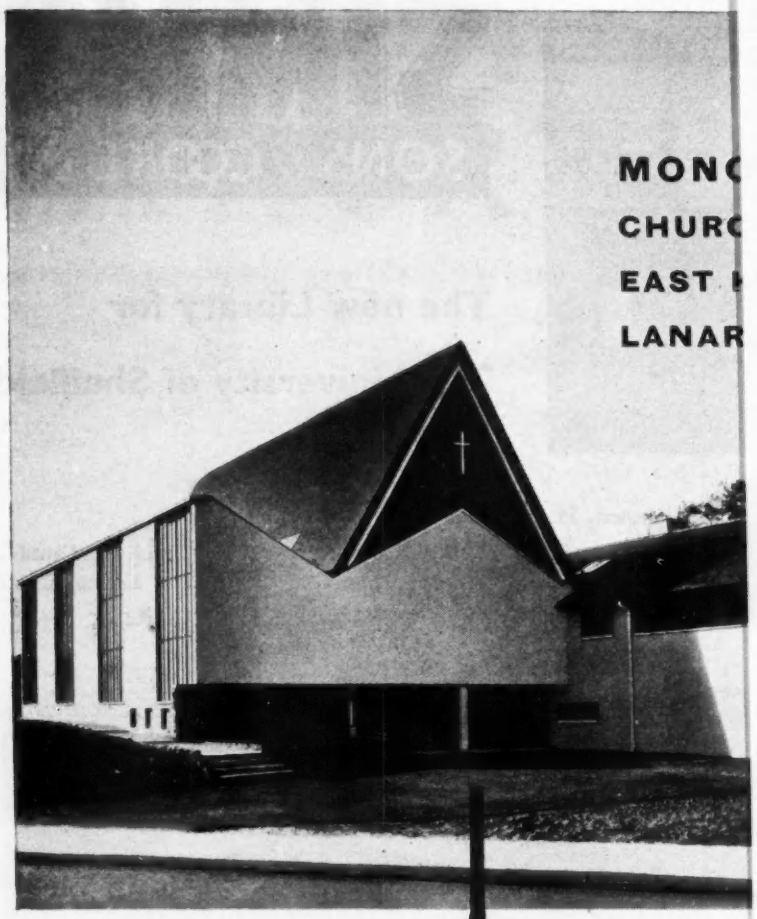

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Late News

Housing Progress Report

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Architecture in Evolution

DR. CONSTANTINOS A. DOXIADES, the Greek architect-planner-engineer, who is to deliver the RIBA annual discourse on Thursday, March 10, will appear on the BBC programme 'Building Matters' on Tuesday next (March 8) on Network Three (7 p.m.).

Contracts Placed

LONDON COUNTY COUNCIL have placed a contract valued at approximately £555,000 with Leslie & Co. Ltd., of Kensington, W8, for a scheme of 168 flats at Dacres-road, Lewisham. Hubert Bennett, FRIBA, Architect to the Council; G. D. Walford & Partners, quantity surveyors.

SOUTHAMPTON COUNTY BOROUGH have received 9 tenders for the erection of Glen Eyre secondary modern boys' school, Violet-road. The lowest, at £181,850, was submitted by the Holdsworth Construction Co. Ltd. The Borough Architect is L. Berger, ARIBA, DipArch. Quantities by Tite & Cawte.

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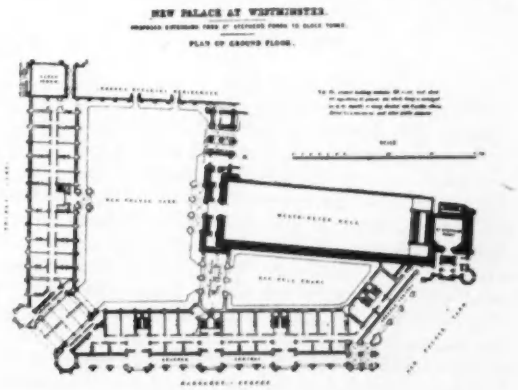

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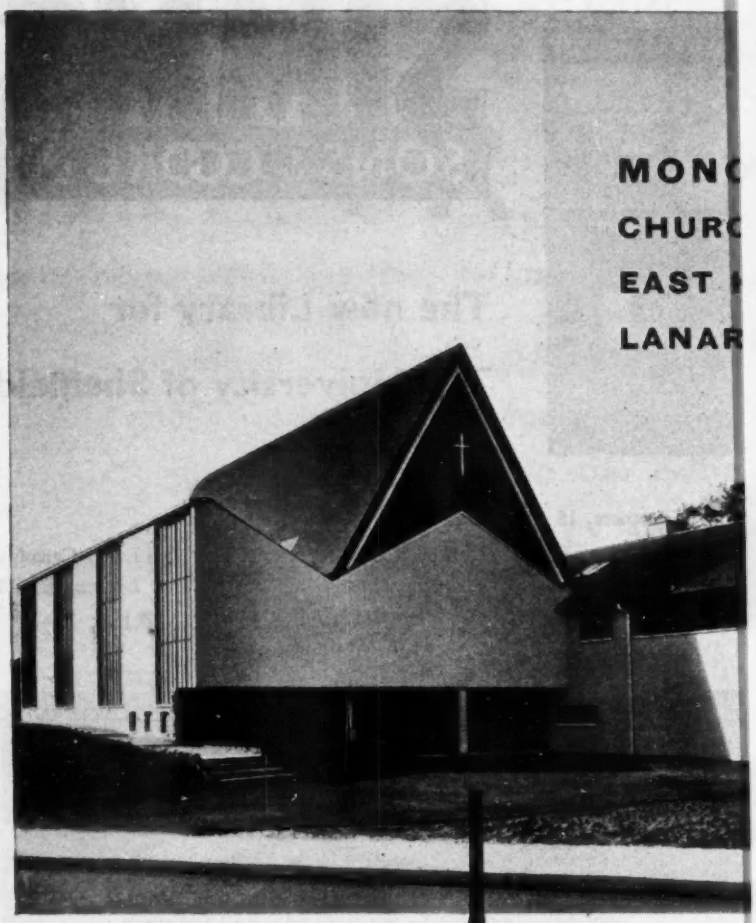

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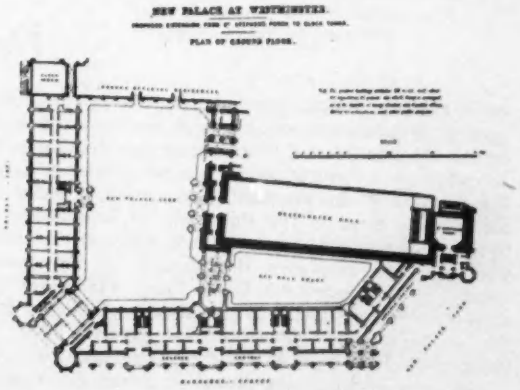


Sir Charles Barry's proposed extension plan

accommodation, interview rooms, etc., is needed close to the Chamber. This points direct, of course, to the use in some form of the open sides of New Palace-yard.

Sir Charles Barry, of course, had this in mind when he prepared his scheme for extension of the Palace (shown on previous page). Were this plan (which envisages a building in the same architectural style as the rest of the Palace extending from St. Stephen's Porch along the edge of the roadway outside Westminster Hall and New Palace-yard to the corner opposite Whitehall, and thence eastward to join up with the Clock Tower) to be carried out, the select committee estimated that an additional 237 rooms would be provided at a cost of approximately £2,100,000. What that cost would be today is another matter.

The main objection to this scheme is, of course, the enclosing from public view of Westminster Hall, and the Minister will undoubtedly have this well in mind. If we may paraphrase the words of a famous Judge: 'Westminster Hall must not only exist but manifestly be seen to exist.' It may well be that the answer will lie in making some use of accommodation outside the Palace curtilage supplemented by carrying through some part of Barry's scheme, preferably on the Bridge-street side which would leave the view into the Yard from Parliament-square substantially as it now is. The problem is not an easy one, but Parliament is a working body which must be housed so that it can perform its duties efficiently, and it can and must be solved without further delay.

Hearth and Home

LEST ANYONE should be under the illusion that there is still in this day and age any such person as the Poor Neglected Housewife, let the idea at once be dispelled by drawing attention to the erudite little volume* produced by The Council of Scientific Management in the Home under the challenging, if pedestrian title of 'Housework with Satisfaction.'

Little Mrs. Smith hurrying back from her shopping in time for the children's tea ought to be told that not only have architects, town planners, doctors and domestic science specialists spent valuable time on her problems, but Professors of Psychology and Physiology and even a Human Kinetician have given of their best in trying to lighten her burden, and that the fruits of all this study are to be had for a modest 4s. 6d. The book contains a wealth of observation and meditation on the processes of housewifery, and no sections of it, we should think, are likely to appeal to Mrs. Smith more than those entitled 'Need the Housewife Feel Tired?' and 'Housework with Ease.' The detailed instruction and diagrammatic illustration showing her how to lift an ash tray with the least amount of finger strain might perhaps strike her as a little irrelevant in moments of domestic stress, but the time-and-motion approach to household chores in general has undoubtedly much to commend it for those who have the time to study it.

This little book collects together in the form of a symposium much that is known and has been said elsewhere by eminent experts in the various fields of domestic interest. Dame Evelyn Sharp in her foreword commends it to the attention of those 'who are interested in the design and the building of houses and to the many women's organisations who are in a position to pass on the ideas to the working housewife.' Its chief interest for architects and builders will be confined to the wisdom of the two architect contributors, Sir Thomas Bennett and Mr. Grenfell Baines, who deal respectively with the topics 'Planning Houses for a New Town' and 'The Best Use of House Space.' (All that about 'body balance' and 'muscle habits' might be safely left to the women's organisations, we feel.) There are also one or two conscience-hitting sub-titles such as 'Washing-up as a Picnic,' 'The Man's Job and the Woman's' and 'Teamwork in the Home,' which it is no use pretending to ignore. The implications are quite plain!

This is a serious study produced by a worthy body of public-spirited women, and in case anyone might be misled by the illustrated poem from 'Punch' which faces the foreword, they should be warned that this is only the sweet before the pill. No such frivolities have been allowed to pollute the rest of the work.

Since Mr. Grenfell Baines in his very practical contribution acknowledges the open coal fire as being still a fetish of the British house dweller and one which must be catered for, it is appropriate that the National Coal Board's elegantly produced booklet 'Fuel Stores for Houses and Flats'† should appear on the bookstalls at the same time. This technically admirable production certainly succeeds in creating the very clear impression that Coal is a Good Thing and deserves a store fit for coal-sacks to go in.

* Housework with Satisfaction. Edited by Mildred Wheatcroft for the Council of Scientific Management in the Home. (London: NCSS, 26 Bedford-sq., WC1.) Price 4s. 6d.
† Fuel Stores for Houses and Flats. (London: Coal Utilisation Council.) Price 2s. 6d.

The Norwich Experiment

THAT PIONEER EXPERIMENT in civic design, the rejuvenation of Magdalen-street, Norwich, inaugurated last year by Mr. Duncan Sandys, President of the Civic Trust, is well recorded in a beautifully produced brochure issued by the Trust (79, Buckingham Palace-road, London, SW1, price 5s.). Here is the full story of how some eighty property owners and occupiers in a single street combined with the local authority, the Ministry of Transport, the local bus company, the Civic Trust and some twenty architects and designers to give that street a new lease of life without major alterations or expense. Mr. Misha Black, OBE, RDI, PPSIA, was the co-ordinating consultant.

The carrying out of the scheme is clearly described from start to finish, and there are numerous illustrations, many of them beautifully reproduced in colour, showing sections of the street before and after treatment. Here is a convincing demonstration of the improvement that can be brought about in the appearance of the urban landscape by such simple means as the repainting of premises in harmonious colour schemes, by good lettering on fascias, by getting rid of clutter such as ugly street furniture, signs and posters, and their substitution, where necessary, by well-designed accessories. The improvement brought about by the removal of tall lighting standards and their replacement by unobtrusive wall brackets is remarkable.

It seems almost incredible that such a reconditioning could have been achieved at no greater cost than £9,000. It is not surprising to learn that many other cities, towns and villages have begun to investigate the possibilities of similar schemes.

Notes of the Week

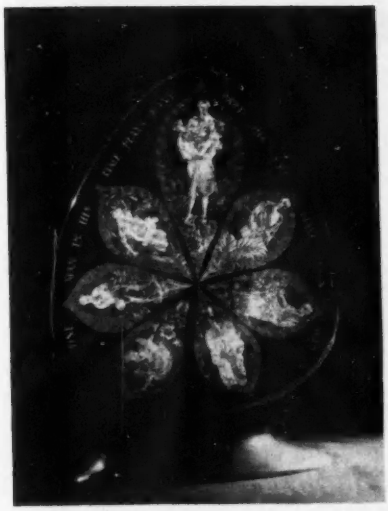
Traffic Engineering; The Half-Baked Broiler; Craftsmanship and Industry; Architects in Contemporary Society

NEXT FRIDAY (March 11) the House of Commons will be having their first debate on traffic engineering. For this opportunity, members can thank Mr. Norman Cole, Conservative MP for South Bedfordshire, who, following his luck in drawing first place in the ballot for private members' motions to be debated on that day, announced that he proposed to call attention to the possibility of the increased use of traffic engineering to relieve traffic congestion, and move a resolution on that subject.

The views of the Minister of Transport, Mr. Ernest Marples, on this topic are known to a certain extent but it is to be hoped that he will use this debate to give a little more detail and comment upon what he saw during his visit to the United States during the Christmas recess and how he proposes to apply traffic engineering here. Not long ago he indicated in a reply that he would do everything he could, in co-operation with local authorities, to see that the street systems in urban areas are used to the best advantage through the increased application of traffic engineering, including the strict control of street parking.

* * *

IN THE MINISTER'S OPINION the problem is not so much to control the flow of traffic into urban areas as to provide for it by road improvements and by making the best use of the existing road system. 'A skilful use of traffic engineering methods,' he said in December, 'would help us to bridge the period until a series of road improvements, some of which have already been provided, take on their full shape.' He ought to seize this chance to expand that frame of mind. He has obviously also to consider ways of encouraging the training of more of these road experts.



Engraved glass trophy commissioned from Anthony Pope by Shell-Mex for the British Association of Industrial Editors and on view at the exhibition of craftsmanship at the RIBA (see Note)

Discussion will undoubtedly last all day and consequently prevent Mr. Tiley, Conservative and Nat. Liberal MP for Bradford, West, putting his motion on the hospital building programme. The terms of the motion are of some interest. They are: 'That this House, whilst welcoming the Government's increased hospital building programme, urges the Government to review the system so as to speed up the methods by which the most modern and up-to-date plans for new hospitals or extensions are approved and implemented.'

The Half-Baked Broiler

SINCE FEBRUARY 25 planning control has been established over large agricultural buildings. The Order, the Town and Country Planning General Development (Amendment) Order 1960, to give it its full title, is intended to ensure that large agricultural buildings are sited with due regard to local amenities, but the Minister 'looks to planning authorities to exercise this control with a full and detailed appreciation of the needs of agriculture, and in particular the desirability of not impeding the development of new and efficient methods of food production.' This has been taken as specifically referring to the broiler industry.

Those who care for rural amenity should, of course, be grateful for any small protection but the fact that 'large' in the context of the order means 5,000 sq. ft. or above of ground-floor area and that everything below this area, whether on a building or a group of buildings, is presumably exempt gives scant reason for satisfaction. Conceivably the multi-storeyed broiler-house is perfectly permissible so long as the ground floor does not exceed the figure of 5,000 sq. ft.

We may question just what benefit the order confers on the well-being of the countryside. Presumably those engaged in this new industry mostly start with small establishments and add to them as trade expands. An unscientific early layout must result, in the absence of town-planning advice at an early stage. We shall hope to see this Order tightened up considerably, not least the loophole noted in the first paragraph above which seems to make the planning authorities' task almost impossible.

Craftsmanship and Industry

IT HAS BECOME EVIDENT that the arts, in the wider sense, have in the Duke of Edinburgh not only a staunch supporter but a shrewd one, writes Basil Marriott. In his speech on opening the 'Creative Craftsman Exhibition' at the RIBA (until March 9), Prince Philip showed a grasp of the complicated inter-relationship of the designer-craftsman and the industrial designer, and of the architect's concern with both, considerably clearer than that of some professionals in those fields.

One sensed however that Prince Philip might privately share the feeling that the creative craftsman should either remain firmly in his ivory tower or else emerge more confidently than merely for furtive forays after mass-produced industrial design clichés, as I find to be a general and not unjustified criticism. But he certainly made no bones about the Crafts Centre's expectations from architects.

* * *

THE EXHIBITION'S 'TRI - NAVATE' ARRANGEMENT suits the hall surprisingly well, and the selection avoids a preponderance of architectural items, tactfully leaving it to architects' imagination to translate into their own terms. I gained from other invited guests the impression that the exhibition was found better and more relevant than expected —a comment not to be taken unkindly either by the Crafts Centre or those who know it to be a watchful and realistic as well as a benevolent go-between.

Architects in Contemporary Society

ON MARCH 8 at 6 p.m., Mr. W. A. Allen, ARIBA, the Superintending Architect of the Building Research Station and a member of the RIBA Council, is to read at the Royal Institute a paper entitled 'The Profession in Contemporary Society.' In his paper Mr. Allen will examine the position in society of the professions generally as well as of architects in particular. The relations between professions, science and industry will be touched upon, and there will be a closer look at the relations between architects and the group of professions and industries with direct interests in the field of building. The functions, standards, responsibility and organisation of professions will also receive attention. The general thesis of the author is that professions, science and industry are entering a new phase of critical importance in their mutual development. A full attendance may be expected.

Poet's Corner

The Clock and Victoria Towers of the Palace of Westminster are 15 in. out of perpendicular. Big Ben intones to the refrain of 'Leaning':

As I boom the hours we're becoming leaning towers—
fifteen inches out of plumb today!
Not so bad as Pisa but a couple of degrees are
quite enough to make us swoon and sway.
Leaning, leaning! What would Samuel Peto say!
We're rigidly particular on being perpendicular
So fortify our footings, pray!
And keep us OK.

ANON

Latin-American Architecture

Some Impressions following a Tour

[From a Special Correspondent]

THE PARTY of thirty British architects and engineers who have recently been touring Latin America under the auspices of the Cement and Concrete Association, have returned home. Their flying tour of some ten thousand miles took in Sao Paulo, Brasilia, Belo Horizonte (with a day's excursion into 17th-century Baroque at the hill town of Ouro Preto), and Rio in Brasil, Caracas in Venezuela, and Mexico City. The tour was rounded off by a week-end in New York.

There was much discussion among the members as to the most outstanding features of the tour. Jack Coia, Glasgow architect and designer of many churches (and indefatigable photographer) plumped for the road systems. 'Get the roads right,' he claimed, 'and the city follows.' He had been greatly impressed by the city centre of Caracas and the conception of ever-flowing traffic under and around and through the unit of tall-towered office blocks, level and underpass dual-carriageway roads, elevated pedestrian ways and ramps, and underground parking garages that make up the famous Centro Simon Bolivar. Also in Caracas his eye had been caught by the helicoidal shopping centre now under construction by private enterprise.

Interior of the great hall, University City, Caracas, Venezuela. Architect: Carlos Raul Villanueva

Helicoidal Shopping Centre

This scheme makes use of a rocky hill at the intersection of most of the main routes to or around the city (a road system not as yet completed, but very bold in conception and very impressive with its interlacing reinforced concrete viaducts and flyunders). The 'Helicoide de la Roca Tarpeya' will have traffic ramps winding to the top (up and down traffic separated), with saw-tooth parking space at every level, 'outside' as they put it 'the very shop you are visiting,' escalators and lifts for pedestrians and a separate 1,000 car garage for shop owners and employees. The 'Helicoide' which is a reinforced concrete framed construction, will provide shops of all kinds grouped together in types on each circle —clothing on the first, household goods on the second, mechanical items on the third, and so on—with services such as post office, hairdressers, travel agents on the top, as well as a 'baby park,' children's play space, cinema, restaurants, auditorium and exhibition halls. The scheme was compared by Mr. Coia with the Guggenheim Museum, seen finally in New York: helicoidal construction again, ramps, displaying pictures in this case, but circulation and its object together. 'This is the way we must go,' said Mr. Coia 'until building and town and traffic are one.'

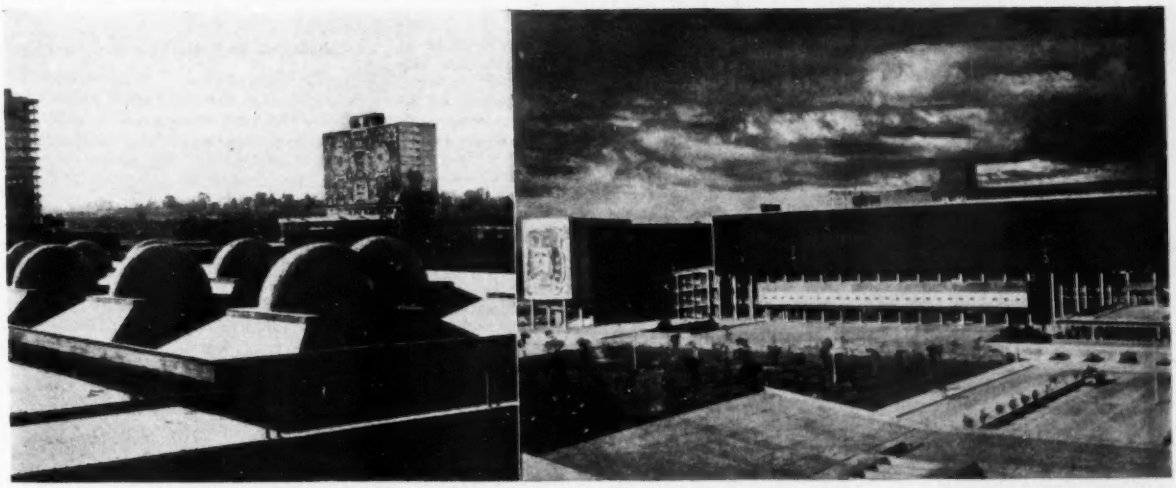
F. R. S. Yorke was most impressed by the two University Cities—one in Caracas (still with some buildings to come) and the more famous one in Mexico City. He relished the contrast between them: the magnificent drama of the Mexican scheme with its carefully planned layout and show-piece buildings and the more intimate and livable scale and less dramatic approach of Villanueva's scheme in Caracas (not lacking, either, in its own touch of drama in the fine Aula Magna and auditorium group); both made pleasant by lawns, interesting paving pattern and trees.

Controversial Brasilia

Brasil's new capital, Brasilia! There was no doubt as to its significance as a great vision, or its power to open up the country, bring roads, and trade, into the so-far neglected interior, and gradually enable much of Brasil's hidden riches to be exploited and its most backward people to reach a higher standard of living. There was discussion of its planning: some thought it too ambitious for the time allotted, or, conversely, that the ambitious scheme was being carried out in too great a hurry; others felt the planning of the quadrangles of blocks of flats too rigid, while others, again, were impressed by precisely this arrangement of the planning, with its gradual unformalisation away from the centre.

There was universal admiration for Niemeyer's beautiful Presidential Palace, with its white marble-clad 'swan' columns reflected in the pool in front, and for the Executive Palace where the President and his Cabinet have their offices—a three-storey building with similar columns (if that can be the right word for them) about its periphery. The road system came in for much interest and praise: the elevated prestressed concrete viaduct which carries the town's transverse axis over the formal processional way which forms its vertical axis, and at the apex of the processional way the pedestrian ramps which take spectators to the Senate and the Congress houses—one a concrete dome, the other a bowl. J. L. Womersley, City Architect of Sheffield, was one of those specially impressed by the breadth of the conception of Brasilia, the co-ordination of road and building, the bold approach to prob-

lems and, particularly, by the attitude of the people concerned: everyone, from planner to electrician, seeming determined to get the job done, somehow: the Government was moving in April and the buildings had to be ready for them: official buildings for parliamentary sessions, offices for the secretariat and the various ministries, flats for the civil servants, shops for their needs, schools for their children, and churches of different denominations, were the minimum which must, and *would*, be ready by the take-over date.



The University City, Mexico: to left is the Library block (Juan O'Gorman, G. Saavedra and J. M. de Velasco, architects) seen across the roof of the Engineering school (F. Serano, L. McGregor and F. Pineda, architects). To the right is the School of Medicine (R. A. Espinoz, P. R. Vasques, Ramon Torrea Martinez and H. Velazquez, architects)

'Prestige' Architecture

The general question of cost and lavishness was a subject warmly argued by one group, including Alex Gordon, Cardiff architect (who was interviewed on arrival by the BBC), J. L. Womersley, Cecil Harris and O. A. Davis. The impression left at the end of the discussion was of a certain envy on the part of the British architects for their Latin-American colleagues who were not only allowed, but encouraged, to produce prestige architecture with superb materials and finishes, imaginative design —and space. There was in the air a suggestion that some British architects had become so accustomed to economy by decree that they had grown to look upon economy as a virtue in itself. Perhaps the Latin-American tour will bring about a fine careless rapture in British design such as has not been known for many a year!

Chapel of St. Vincent, Coyoacan, Mexico City. Architects: Enrique de la Mora and Fernando Lopez Carmona; engineer: Felix Candela

On their tour the party met many well-known Latin - American colleagues. Niemeyer proved elusive, but in Rio was Affonso Eduardo Reidy, the city's chief architect and planner, Mauricio Roberto, one of the two surviving brothers of the famous trio and now President of the Brasilian Association of Architects, Henrique Mindlin, designer of so many beautiful private houses, and Jorge Moreira who is responsible for the superb school of architecture, now half-finished, in the barely started University city.

The stay in Sao Paulo was warmed by the welcome given to the party by Dr. Arnoldo Dumont-Villares, MICE, a wonderful old gentleman with a great love of England, head of one of Brasil's leading firms of engineering contractors and President of the Sao Paulo Anglo-Brasilian cultural society.

In Venezuela they were shown round the University buildings by their planner and designer, Professor Villanueva himself, and in Mexico, besides renewing earlier acquaintance with Felix Candela, they met Enrique de la Mora, the architect for whom some of his finest work has been done, Alexandro Prieto (author of the President Juarez housing scheme with its underpass road), and others.

In both Caracas and Mexico the party was entertained by the National Association of Architects in their own building, known in Mexico as the Casa del Architecto—the Architect's house—and to which Senor Aparicio, the President of the Association, warmly invited all British architects who might be visiting Mexico: they were to consider the house as their own. Certainly, the welcome which the British party received from their colleagues could not have been more friendly wherever they went, and there could be no doubt that the visit, besides providing a valuable exchange of ideas, has made for an increased feeling of unity between our own architectural profession and that in the countries visited.

Letters to the Editor

'Illiberal Criticism'; Quantity Surveyors in Ministries; Competitions and the Younger Architect

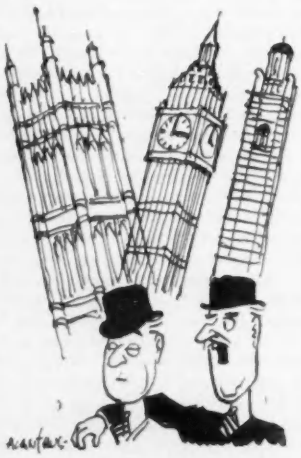
'Illiberal Criticism'

SIR,—In your issue of February 19 you criticise a statement in 'The Observer' concerning a future commercial development in Trafalgar-square and the part played by Sir Howard Robertson in the Piccadilly inquiry. You do say, fairly enough, that this statement appeared over the pseudonym 'Pendennis.' In your issue of February 26, however, Mr. Howling, in your columns, goes further and describes 'The Observer' statement as spiteful and illiberal. As I am sometimes described as the 'architectural correspondent' of 'The Observer' will you allow me to say that I am in no way responsible for the statement? I knew of it only when it was published.

Nevertheless I would like to qualify that repudiation by three comments of my own. 1. *Any* commercial development in Trafalgar-square, next to St. Martin-in-the-Fields, needs watching; an early warning is our best safeguard and if it proves unnecessary so much the better. 2. If an eminent architect publicly affirms that bad architecture is good architecture, he does not become more eminent, whatever his motives. 3. It was unpardonable of you, Sir, to condone bad architecture on the ground that it provides employment. This is the notorious 'last ditch' defence of many a weak case; here it is irrelevant, since good architecture would in any case serve the same purpose.

R. FURNEAUX JORDAN [ARIBA],
178 Coleherne-court, SW5.

*** Mr. Furneaux Jordan wins admiration for his agility in climbing out of the driving seat of the critics' bandwaggon on to the running board. To reply to his comments: (1) Of course early information about developments proposed near historic buildings is useful, but need it be accompanied by denigratory remarks about a design that has not been published? (2) A study of the evidence given at the Monico site inquiry would show that Sir Howard Robertson was at least as concerned to defend the rights of developers who have done what was asked of them as to defend the architecture; by doing so he has done more to spotlight the weaknesses of planning control as applied to city centre development than all the other witnesses who preferred to think architecture aloud at the inquiry rather than to address themselves to the merits of the case. (3) If Mr. Jordan will again read our comment of February 19 he will see that we did not condone the architecture of the Monico development; on the contrary we wrote: 'It requires attention on the scores of design, scale, traffic consideration and establishment of an optimum height for the neon advertisements. But we were, and remain, concerned to defend the rights of Sir Howard, or anyone else, to put the case for developers who—having published a design which had been approved by the planning authority and made public six months before the outcry of last November—feel they have had less than justice. Mr. Jordan makes it all too clear that, in his opinion, public weal must override private rights. We are, however, mildly surprised to find 'The Observer' apparently following the same line.—EDITOR.



'If you think they lean that much, you shouldn't drive home!'

Quantity Surveyors in Ministries

SIR,—Your most interesting article on the enlargement of the Ministry of Health Quantity Surveyor's Department, published in 'The Builder' of February 19, clearly illustrates the change of emphasis which is now taking place in the quantity surveyor's profession, particularly in Government Departments. No longer do we see the quantity surveyor as a watchdog or referee but as an essential member of a design team with the opportunity to make a valuable contribution to research and development.

Historically, Government Departments have tended to 'farm' out the preparation of bills of quantities but now increasingly they are being prepared by their own surveyors. In a number of Departments the quantity surveyor is taking a leading part in cost research, e.g. the Ministry of Education began in 1950; and the War Department and the Ministry of Health have set up research and development groups, possibly soon to be followed by the Ministry of Housing.

One of the vital tasks of the Government quantity surveyor, in conjunction with his architect and administrative colleagues, is to determine cost limits similar to the Ministry of Education pattern which allows adequate financial control without pettifogging interference and restriction. While there are many advantages in working in a large organisation the personal touch is sometimes lost. It is therefore encouraging to see this point being given attention at the Ministry of Health. The War Office have the point very much in mind and their recent reorganisation has attempted to create small autonomous groups which can operate as small offices within an overall general policy. The results so far are very encouraging.

JAMES NISBET [FRICS],
Chief Quantity Surveyor, War Office,
Chessington, Surrey.

Competitions and the Younger Architect

SIR,—In 'The Builder' of February 26 you bring up the perennial subject of architectural competitions; it is time that something was done about it. Of course, all architects would like to win competitions but few in these days have the financial backing and time to carry through the normal requirements of the conditions with the result that it is often left to the big firm which, with the opportunity to cut down its supertax, establishes competition groups within its staff organisation.

The younger and not-so-well-established architect should have more opportunity to go in for competitions, and my view is that all those sponsored by the RIBA should be in the form of 'knock-out' competitions at one stage of the design. The first essential of any scheme is a well-thought-out unit distribution and circulation plan, backed by good massing of the structures involved. At that stage it would be quite easy to eliminate all but the best three designs whose authors, on completion of the conditions, would each receive some portion of the award and this would, even at the lowest award, help to pay for the more arduous part of the competition.

This system of dealing with competition matters has, of course, been operated in the past but it should become the general practice.

KENNETH ANNS [FRIBA],
1 Lincoln's Inn Fields, WC2.

Technical Literature

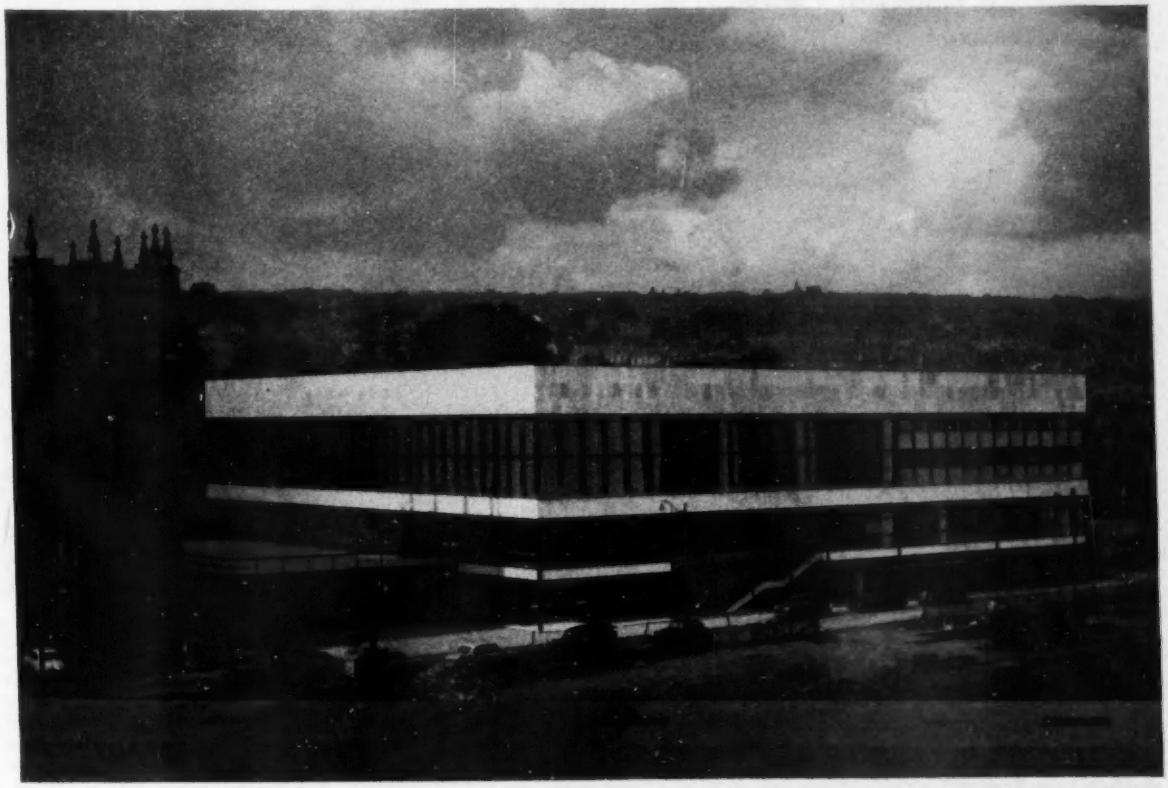
Competition Awards

ALTHOUGH BOTH the number and the standard of entries in the Manufacturers' Trade and Technical Literature Competition for 1959, sponsored jointly by the RIBA and the Building Centre, far exceeded those of previous years, the general numbers were still low. It is felt that the most important aspect of this competition is to improve the standard of technical literature with regard both to the typography and the presentation of relevant information. The people who prepare technical literature must be made to realise exactly what it is that the architect wishes to know about a product, and participation in this annual competition is one way of doing it.

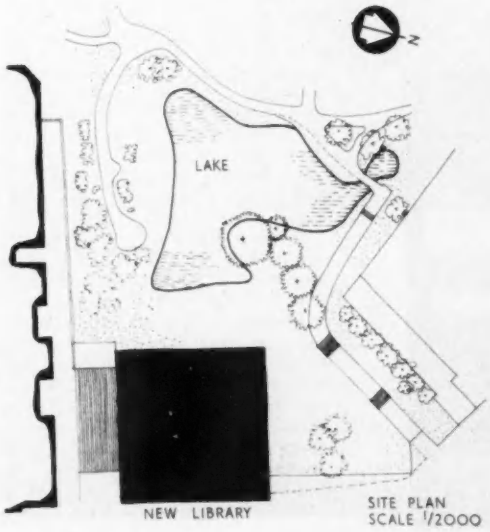
At the Building Centre on February 24 Mr. Basil Spence, OBE, PRIBA, presented the awards to the winning participants in last year's competition. Mr. Bryan Westwood, FRIBA, presented the assessors' report which was signed by him and Sir Hugh Casson, FRIBA, Mr. G. Grenfell Baines, ARIBA, and Mr. Bruce Martin, ARIBA. In it they said that although they were impressed by the generally high standard of the entries, they thought that the number was small compared with the total in the industry. The awards were listed in 'The Builder' of February 19.

University of Sheffield, New Library

GOLLING, MELVIN, WARD & PARTNERS, architects
M. LITCHFIELD, B. J. MAYES, H. PRIME, assistant architects
W. V. ZINN, structural engineer
DAVIS, BELFIELD & EVEREST, quantity surveyors
W. J. SIMMS SONS & COOKE LTD., general contractors



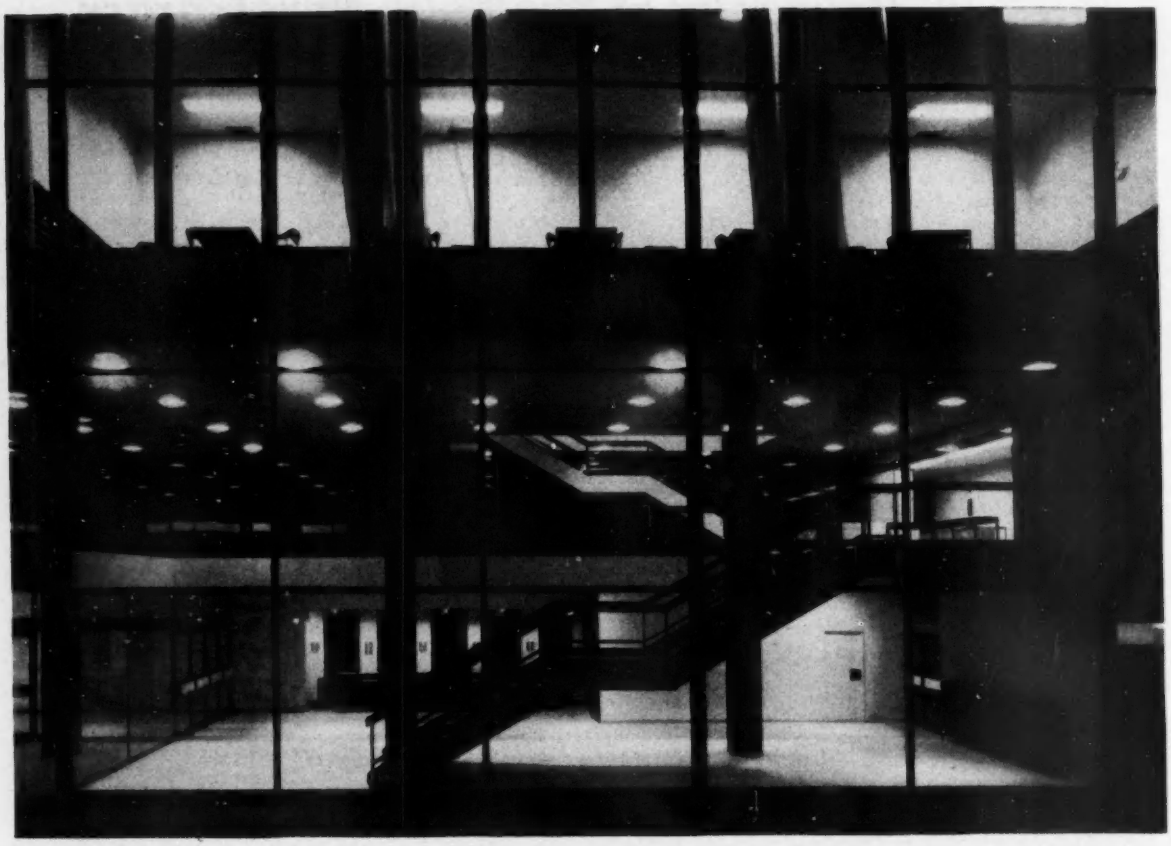
The new library, adjacent to the old University building

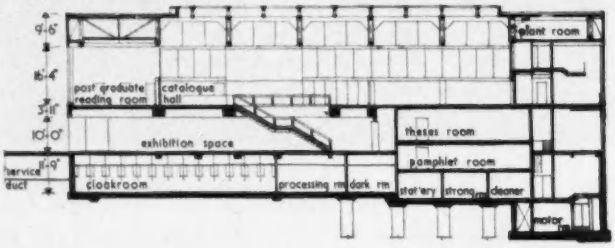


THE LIBRARY is the first of the group of buildings which were the subject of an open competition held in 1953 for the development of the central area of the University. The site for the library was a corner of Weston Park which the City Corporation made available for the University; it is roughly 160 feet square immediately north east of the existing University buildings with a fall in level of some 20 feet from west to east.

The library is planned in the form of a square with each side 155 ft. long and 52 ft. high on the east or campus side, and 32 ft. high on the west or park side. The library is sited and is designed as a low square building, to act as a foil to the 17-storey Arts Department block on which constructional work is to start early in 1961 and to the long low Chemistry Block which forms the east boundary of the campus and which is already under construction.

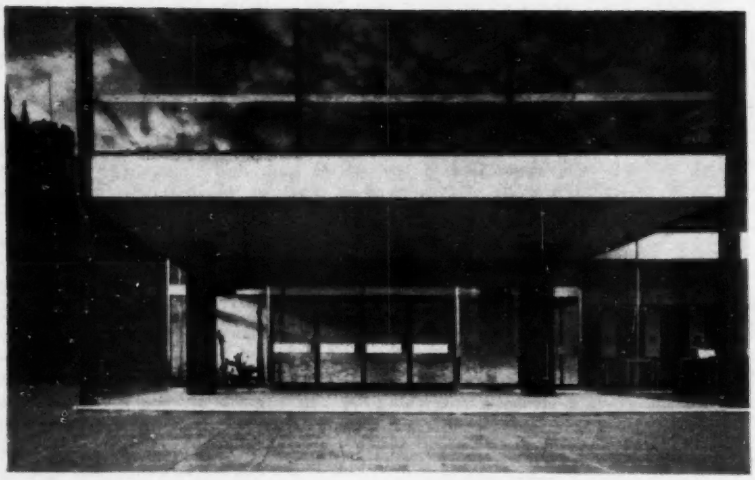
To ensure that no books can be taken away from the library without the issue of a voucher, the plan is divided by those rooms within and those outside the entrance and exit turnstiles. Within the control area lie all the rooms to which readers normally have access and which are approached from the centrally placed catalogue hall. In the catalogue hall are the card index catalogue cabinets, shelving for bibliographical and standard books of reference and the combined issue desk and voucher counter. Also within the control lies the main reading





SECTION Scale: 1 in. = 48ft.

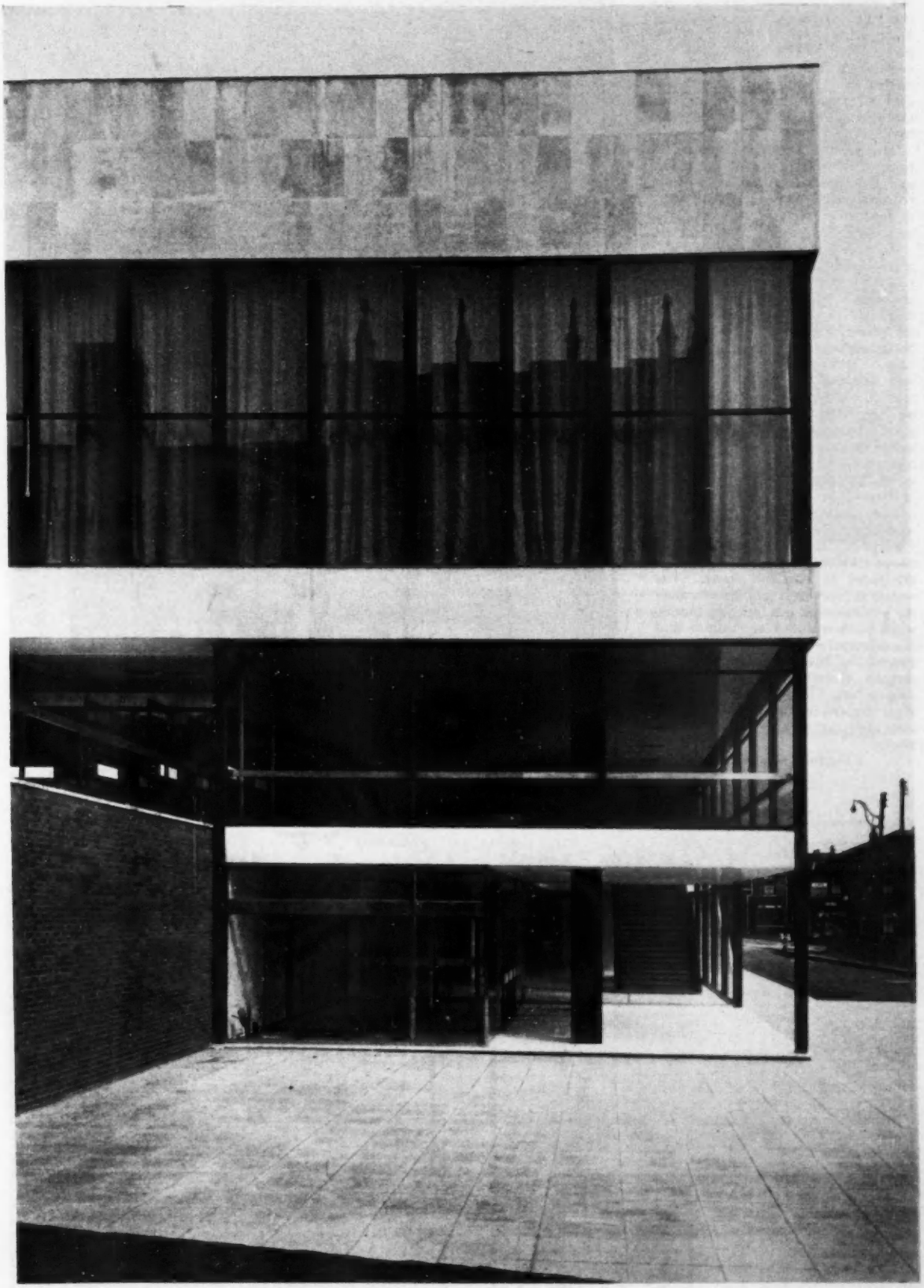
Facing page, horizontal architecture of the library contrasted with the Perpendicular style of the adjacent University, reflected in the glazing. Above, part of the main façade showing the spacial design of the interior. Below, crisp detailing of the main entrance



room and the two smaller reading rooms for post graduates and current periodicals; access to all three being from the catalogue hall.

At the back of the main reading room, which has 76 tables for 280 readers, is a two-tiered open stack book store holding approximately 130,000 volumes. In the post graduate reading room there are 12 tables each for four readers, three microfilm cubicles and 55 private book lockers.

Outside the control on the ground floor are the student cloakrooms and lavatories and service rooms, on the mezzanine the librarian's, secretaries' and committee rooms, and on the main floor the principal working rooms, i.e., the cataloguing and new acquisition rooms, and the binding and unpacking rooms, etc. These rooms, although on the same floor as

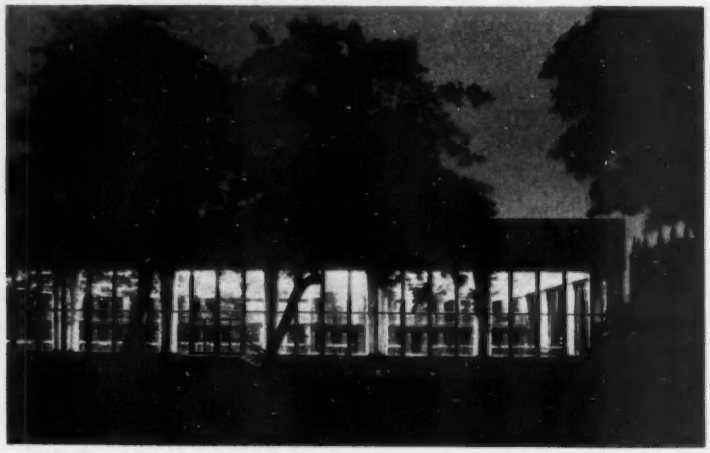


the reading rooms can, together with the labelling room, the inter library loans office, and the deputy librarian's office, be also approached by a secondary non-controlled staircase having immediate access to the goods lift and the covered unloading bay. On the second floor are staff rest rooms.

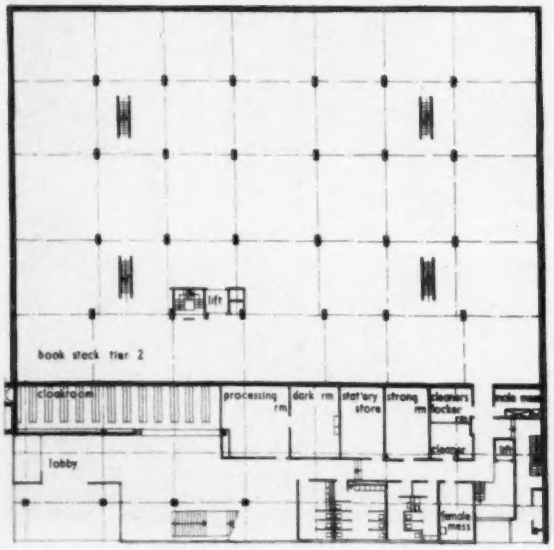
The book stack has accommodation for 870,000 books on four tiers, and is immediately under the main reading room. Access to the stack is used only by the library staff and is not readily accessible to readers.

The construction of the basement stack and the floors below the main reading room floor is in reinforced concrete. The floors in the book stack are in plate construction with no beams and each floor carries the book shelves of that particular tier only. This particular construction was selected in preference to the more usual type of steel stack partly on account of the fire regulations and partly because the stack is largely below ground the floors act as buttresses to the perimeter retaining walls. The upper part of the building is framed in steel with 8 ft. deep lattice girders spanning the 80 ft. width of the main reading room. Externally the horizontal bands above and below the principal floor are faced in Portland stone. The non-structural steel mullions forming the window wall are faced externally with black painted aluminium and the principal window mullions to the ground and mezzanine floors on the campus elevation are box section steel pillars. The North, South and West façades below the main floor level are faced with dark blue/brown bricks.

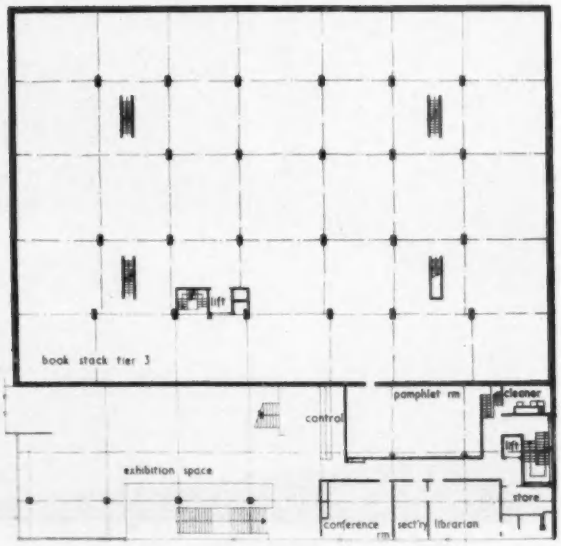
Continued on p. 452

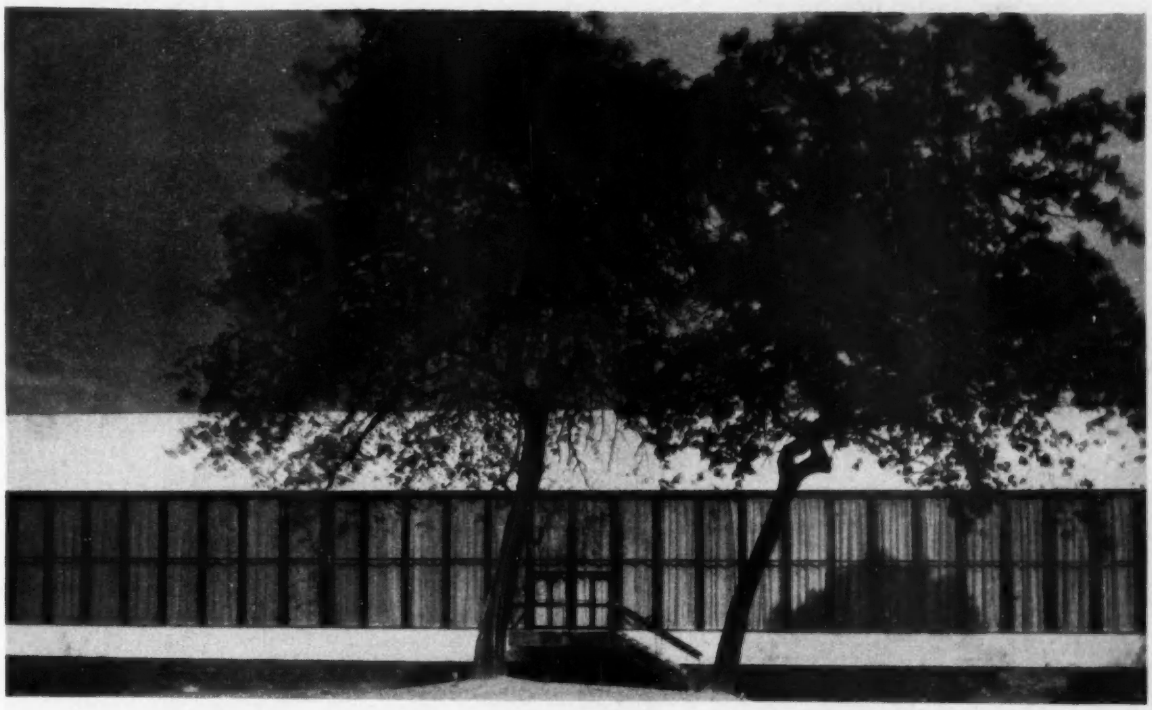


GROUND FLOOR

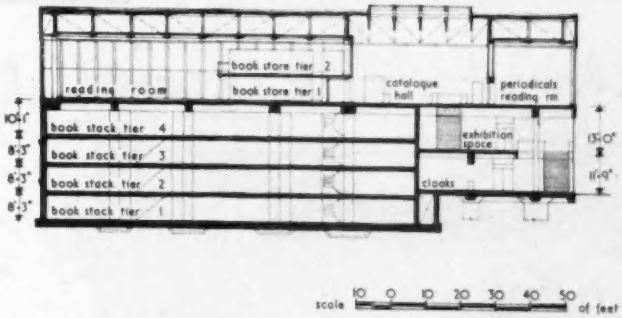


MEZZANINE

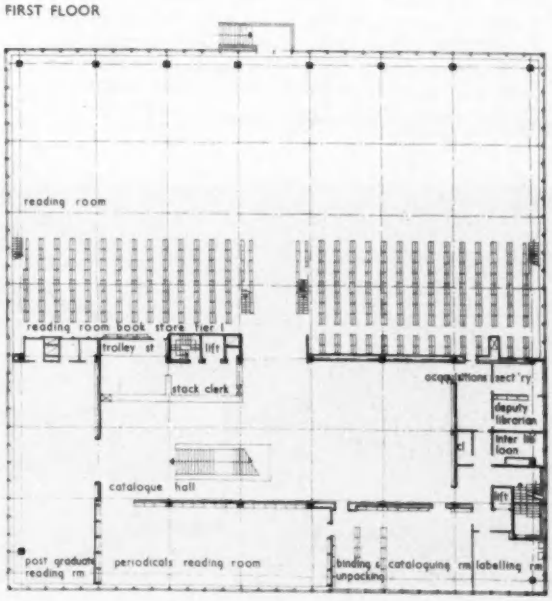




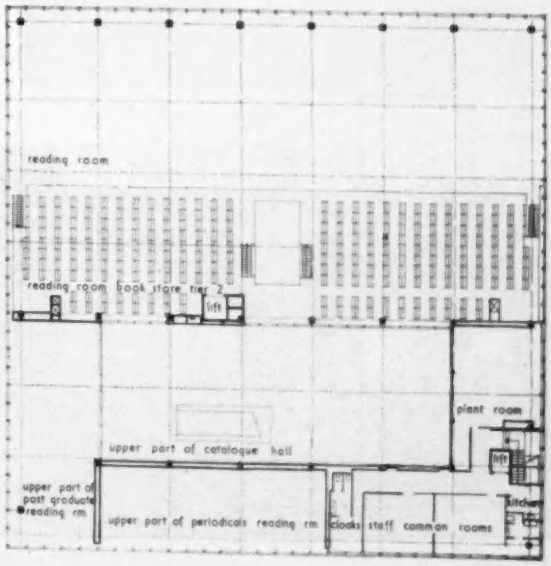
Three views of the rear elevation to the library. The severe lines and formality of the design act as a foil for the pleasant natural setting. At night, the continuous window wall permits an integrated relation between the illuminated library and gardens



FIRST FLOOR



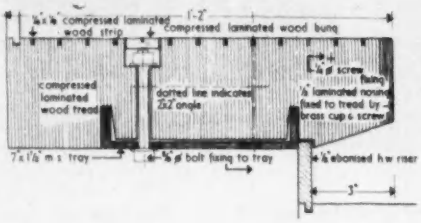
SECOND FLOOR

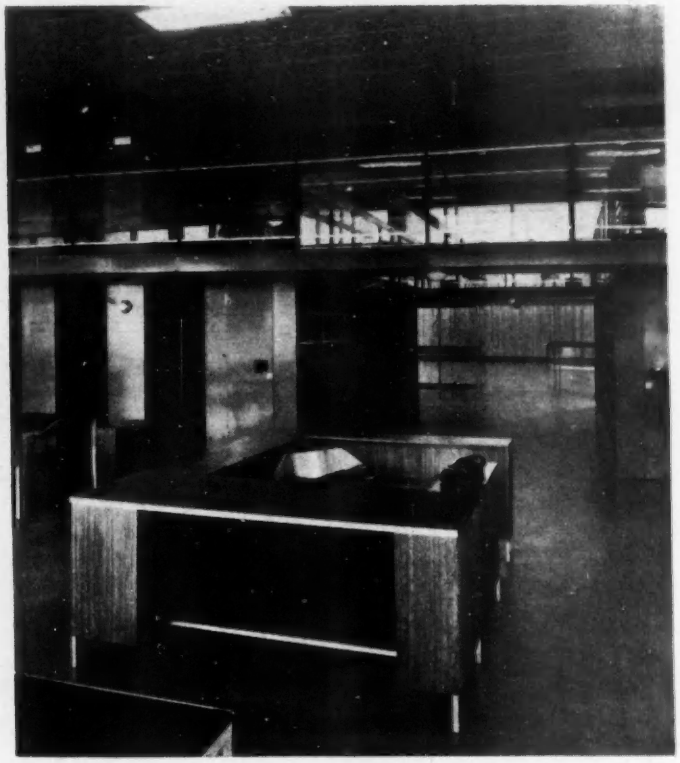


Sheffield University, New Library

The basement book stack and the principal reading rooms are fully air-conditioned. To reduce the cost, as much air as possible has been recirculated although fresh air is introduced into the stack to the extent of 10 per cent and in the reading rooms at the rate of 1,000 cubic feet per reader place. To ensure that the books in the stack neither deteriorate from mildew nor become over brittle, the relative humidity never exceeds 65 per cent, a requirement which alone demands refrigeration. The air in the stack is distributed by vertical ducts some 3 in. x 20 in. in section which form the metal uprights of the book shelving.

SECTIONS OF HANDRAIL, STRING AND TREAD TO MAIN STAIRCASE
SCALE : ½ FULL SIZE





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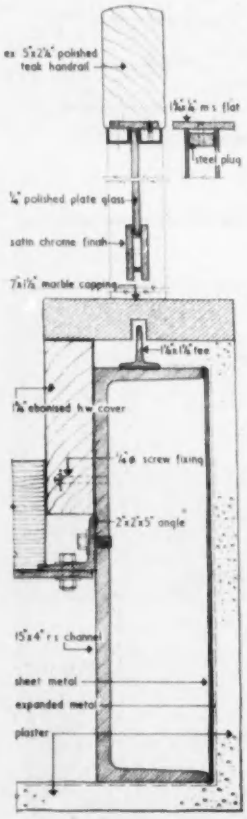
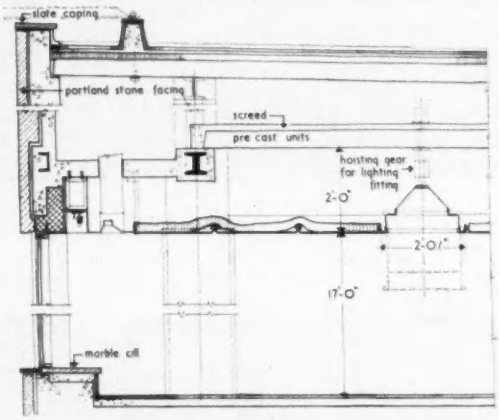
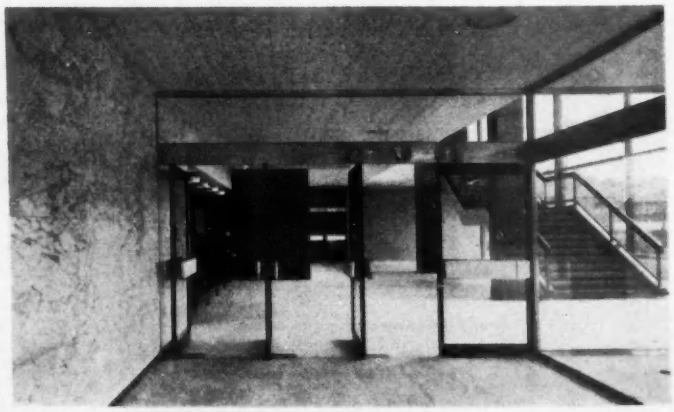
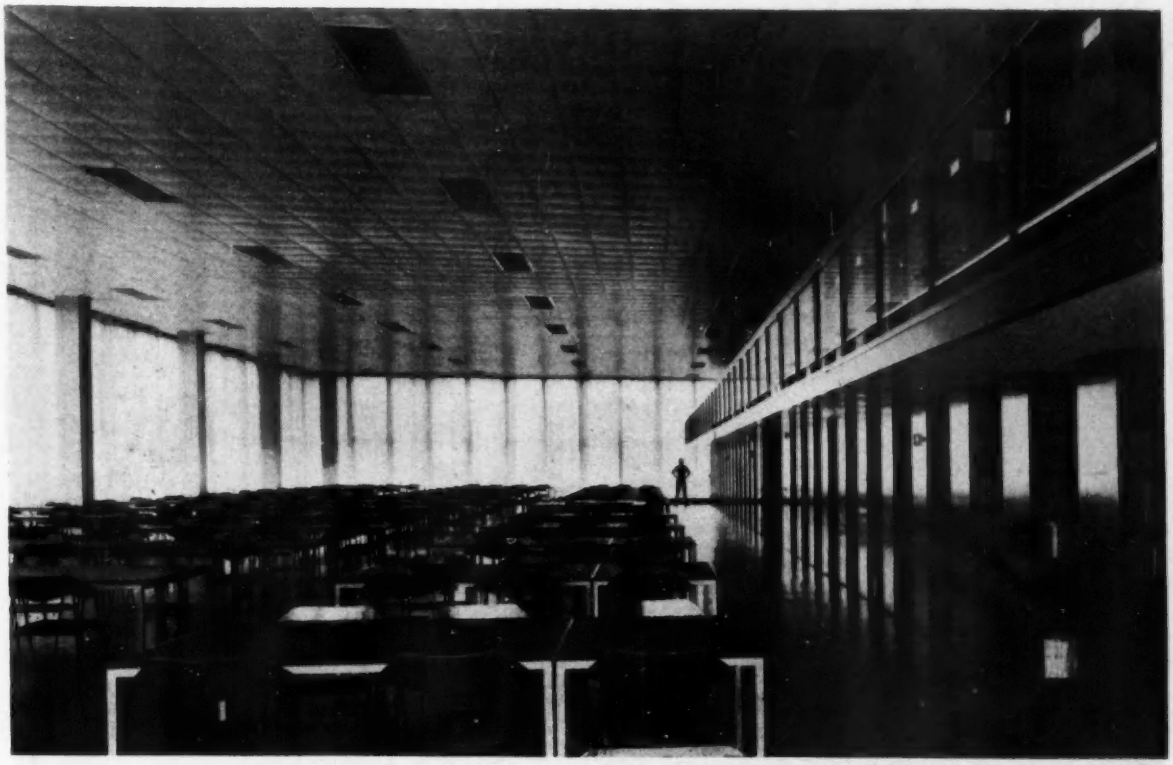




PART SECTION THROUGH READING ROOM
SCALE : ½ IN. = 1 FT.



1

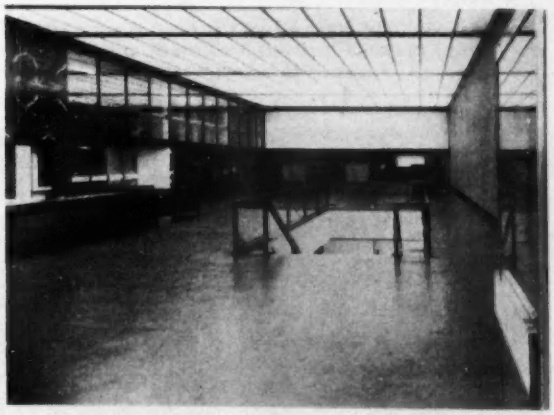


5

1, entrance foyer and main staircase. Flooring is travertine slabs, wall facing is Piastraccia marble, ceilings are fibrous plaster. 2, cloakroom in main entrance hall. 3 and 4, stack clerk's desk in the catalogue hall, first floor. Suspended ceiling is Lumenex. 5, reading room. Ceilings are Frenger, flooring is grey linoleum. 6, view of the double-tier open book stack, running between the reading room and catalogue hall

Sub-Contractors:

Electrical installation: Yorkshire Electricity Board; *mechanical, heating & air conditioning:* G. N. Haden & Sons Ltd.; *air conditioning ducting:* Andrew Machine Co. Ltd.; *library bookstacks and shelving:* Roneo Ltd.; *structural steelwork:* Thos. W. Ward Ltd.; *Portland stone:* Bath & Portland Stone Firms Ltd.; *fire detection installation:* The



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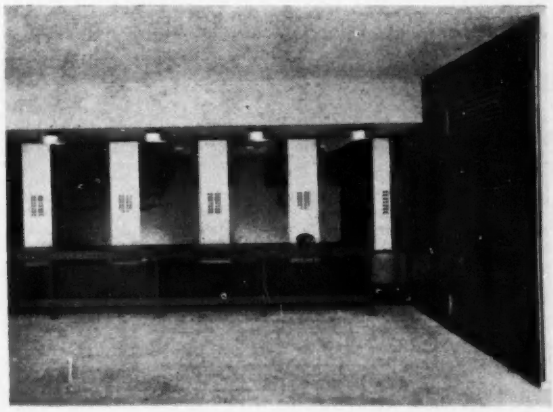

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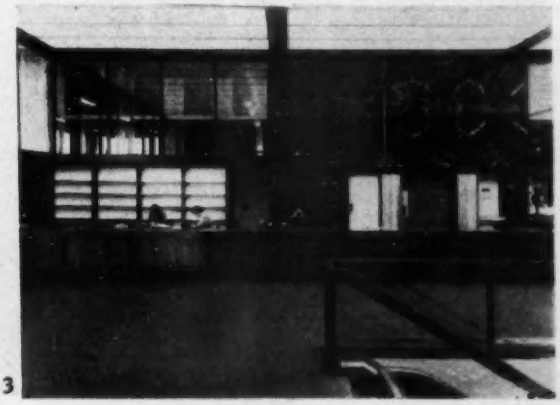
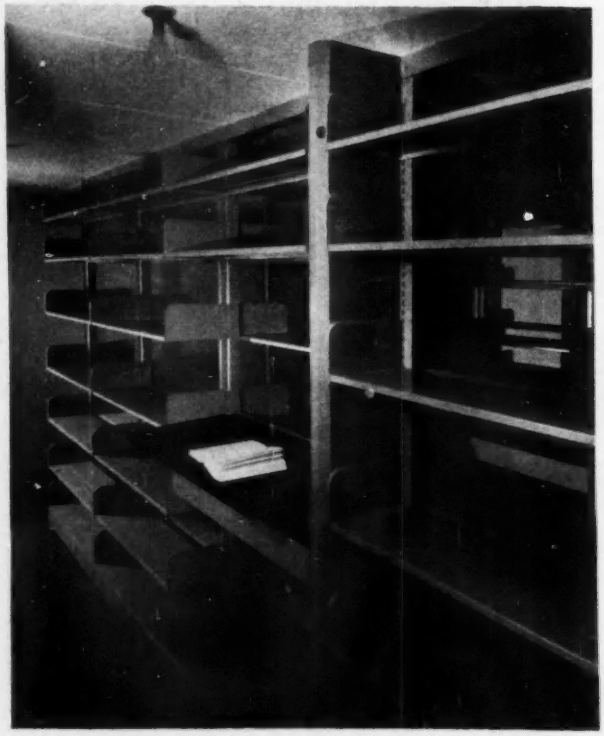


3

Top, staircase and lifts serving the book stack tiers. Below, the vertical supports between book stack units are also duct risers in the plenum system



Sheffield University, New Library

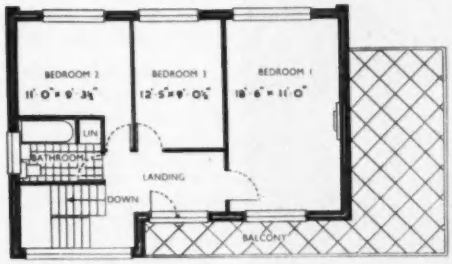
Pyrene Co. Ltd.; *progress photographs:* Derek R. P. Fellows; *lumenex ceilings:* Lumenated Ceilings Ltd.; *lifts:* Otis Elevator Co. Ltd.; *metal windows, doors, ventilators and frames:* Mellowes & Co. Ltd.; *glass lens rooflight:* Lenscrete Ltd.; *collapsible gates:* The Bolton Gate Co. Ltd.; *paropa roof paving:* Frazzi Ltd.; *fibrous plaster and acoustic tile ceilings:* Claridges (Putney) Ltd.; *fibrous plaster mullion casings:* Claridges (Putney) Ltd.; *terrazzo paving:* Hodkin & Jones Ltd.; *asphalt tanking to basement:* Val-de-Travers Asphalte Ltd.; *asphalt paving and cork insulation:* Limmer & Trinidad Lake Asphalt Co.; *tier 4 suspended ceiling;* Sundeala Board Co. Ltd.; *marble wall linings, facings, and flooring:* Walter W. Jenkins & Co. Ltd.; *Danish panelling:* John Dale Ltd.; *balustrading and handrails* Grundy Arnatt Ltd.; *sprayed asbestos columns:* Dicks Asbestos & Insulating Co. Ltd.; *turnstiles:* Dixon Powner & Sons; *hardwood block and strip flooring:* Acme Flooring & Paving Co. Ltd.; *plywood panelling:* John P. White & Sons Ltd.; *counter and joinery fittings:* W. J. Simms Sons & Cooke Ltd., Joinery Dept.; *cloakroom fittings:* Conran Furniture; *cork, P.V.C., and linoleum flooring:* Horsley Smith & Co. (Hayes) Ltd.; *linoleum:* John Walsh Ltd.; *window blind gear:* W. J. Furse & Co. (London) Ltd.

Suppliers:

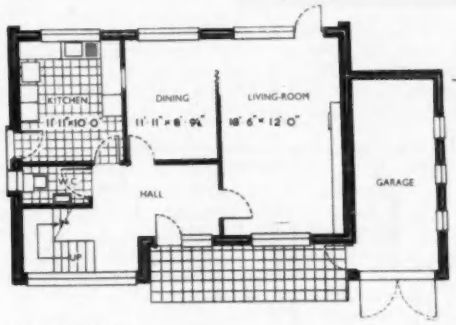
Travelling cradle and gear: Palmers Travelling Cradle & Scaffold Co. Ltd.; *double glazing units:* Pilkington Bros. Ltd.; *main reading room ceiling:* Frenger Ceilings Ltd.; *facing bricks.* Richard Parton (Builders' Merchants) Ltd.; *laminated wood stair treads and landings:* Hordern-Richmond Ltd.; *sanitary fittings:* W. Emery & Co. Ltd.; *timber doors:* F. Hills & Sons Ltd.; *extruded aluminium columns:* Northern Aluminium Co. Ltd.; *steel gate:* Hobbs Hart & Co. Ltd.; *partition blocks:* Thermalite Ltd.; *protection to Portland stone:* R.I.W. Protective Products Ltd.; *slate copings and cills:* John Fletcher Dixon Ltd.; *furniture and fittings:* Conran Furniture; *stainless steel ventilators:* J. R. Bramah & Co. Ltd.; *ironmongery:* Smith Bros. & Widdowson Ltd.; *paint:* Jenson & Nicholson Ltd.; *clocks:* Gents & Co. Ltd.; *electric light fittings:* Troughton & Young (Lighting) Ltd. The Merchant Adventurers Ltd., Associated Electrical Industries; *modular fittings lowering gear:* London Electric Firm Ltd.; *curtains:* Liberty & Co. Ltd.

Ideal Home Exhibition

A Selection from the Designs of Houses Built and On Show at Olympia Until March 26



FIRST FLOOR



GROUND FLOOR

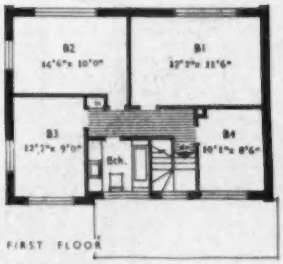
A balcony and roof terrace, and rather generous window wall to the staircase are features of this design

House by Davis Estates Ltd.

The ground floor has a semi-open type layout, with linked dining and living room and cupboard unit separation from the kitchen

RONALD WARD & PTRS., F/A/ARIBA, consulting architects

House by G. T. Crouch Ltd.



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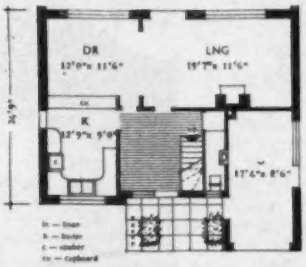
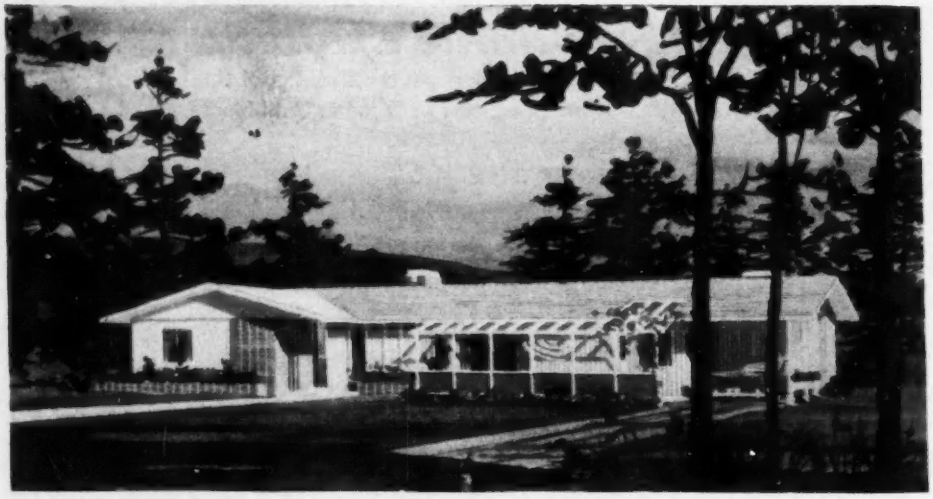
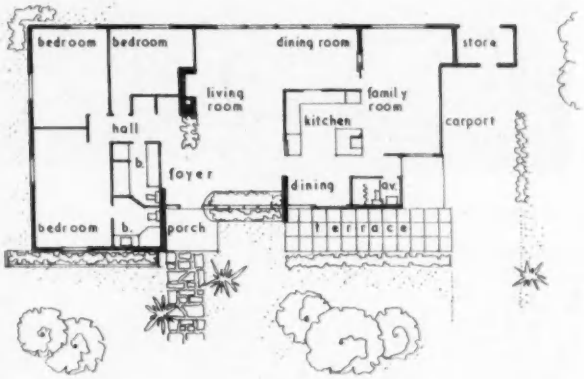


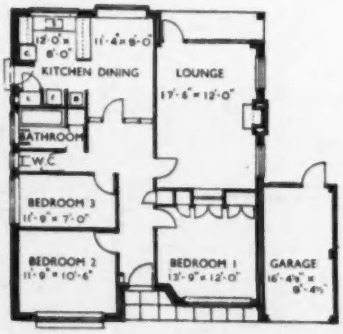
GROUND FLOOR



National Association of Home Builders, All-American House

Houses from the Ideal Home Exhibition





New Ideal Homesteads Ltd., Queensbury Bungalow

News of the Week

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The party will be led by Mr. P. W. Macfarlane, FRICS, MTPI, a member of the TCPA executive. Further details are available from the Tour Secretary, TCPA, 28 King-street, London, WC2.

'Building Matters'

WHAT ARE the risks against which the builder must insure? Leslie Catchpole, of the British Insurance Association, will supply some of the answers in 'Building Matters' on Tuesday, March 15, at 7 p.m. in Network Three.

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Qualification for 'Workers Up'

THE City and Guilds of London Institute has made an important addition to one of its examinations to provide for the considerable number of assistants in the offices of professional quantity surveyors, and members of the staffs in quantity surveying departments of the public services, who are employed as 'workers up' and desire to obtain some qualifications for which at present there is no provision. The Institute has agreed that there should be an extension of the Subject 89 scheme of examinations, which at present relates specifically to the work of building contractors on builder's quantities. The position is to be met by providing an additional section in the Part II of the Subject 89 examination. Details are given in the Institute's February 'Broadsheet.'

Architect's Retirement

AFTER 40 years, Mr. Vincent Goodman, FRIBA, Bedfordshire County Architect, has retired. An official farewell was paid to him at the meeting of the Bedfordshire County Council, when Sir Frederick Mander, the chairman, presented him with a pair of binoculars with the good wishes of all the members. Mr. Goodman joined Beds CC as an architectural assistant for school building under the County Surveyor. Since the war, he has been concerned with building for education, public health, welfare, police, fire service and other services.

Stevenage High-street's Future

MR. MISHA BLACK, OBE, RDI, co-ordinating consultant of the 'face lift' scheme that has made Magdalen-street, Norwich, a mecca for local authorities, visited Stevenage on February 29, when he took a look at the High-street to see if it could be given a new look, and to estimate the cost of such a project.

IoB Practice Arbitration

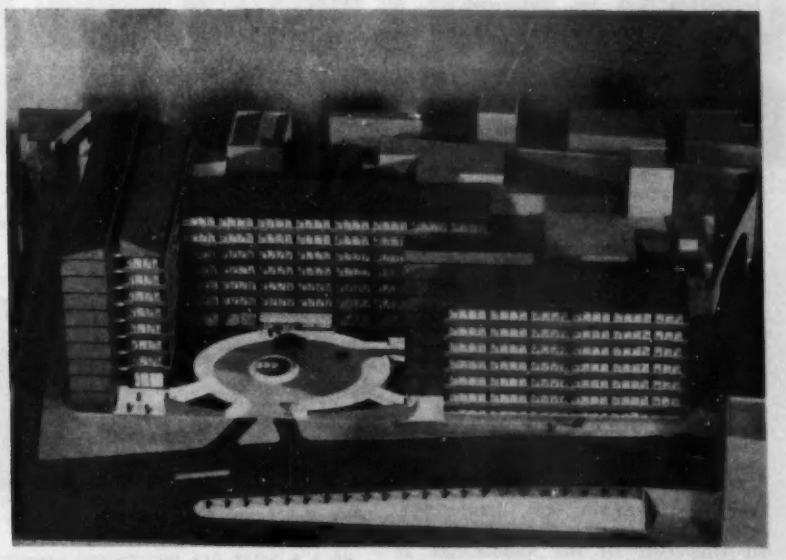
A PRACTICE ARBITRATION has been organised jointly by the Institute of Arbitrators and by the Institute of Builders to take place at the RIBA, 66 Portland-place, W1, on Wednesday, March 16 (6.30 p.m.). The case is being prepared by Mr. W. Tompkins, and Mr. J. R. W. Alexander, CBE, LLB, will act as arbitrator. Admission by ticket from the Secretary of the Institute of Builders, 48 Bedford-square, WC1.

University of Auckland

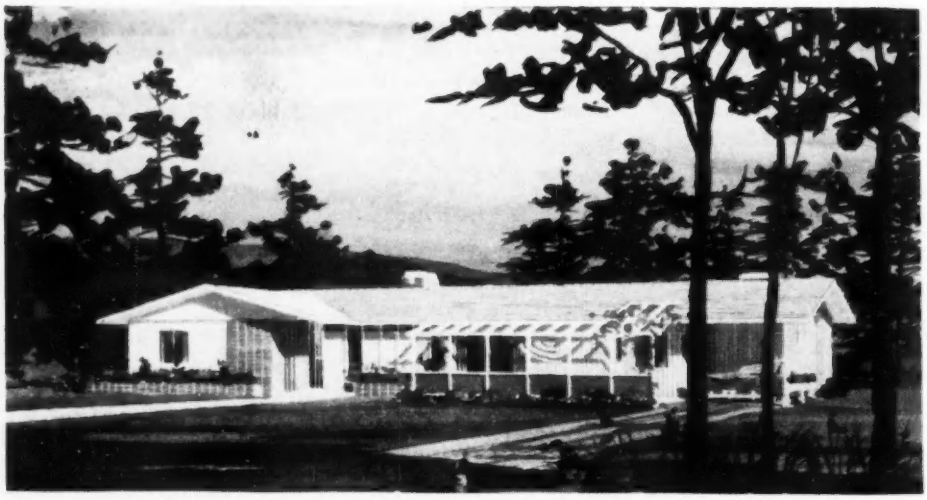
THE UNIVERSITY OF NEW ZEALAND School of Architecture, contrary to a note published in our issue of February 12, is recognised for registration only in New Zealand and examinations therefore do not qualify for registration under the Architects' (Registration) Act 1931. In giving this information, the Registrar of ARCUK makes clear that the School has never applied to the Council for recognition of its examinations and that therefore no derogatory inference as to their standard should be drawn from this statement.

Fears for Flatford Mill Allayed

THE Minister of Housing and Local Government has informed the South Essex Waterworks Company that he is not willing to allow them to take more water from the River Stour this summer. The decision follows an inquiry held by one of his engineering inspectors at Colchester on February 2 and 3. The Company's application had been opposed by the National Trust, who feared that reduction of the flow in the river would spoil the surroundings of Flatford Mill.



Complete reconstruction of the site round Printing House-square, EC4, is envisaged in carrying out the scheme shown in model above for rebuilding 'The Times' offices. The new square, which will overlap the site of the present one, will have the side to Queen Victoria-street open for its entire width. Architects are Richard Llewelyn Davies and John Weeks, F/ARIBA, in association with Ellis, Clarke & Gallannaugh. Demolition will start this spring and printing arrangements will continue on the present site until the whole scheme is finished; this is expected to be in 1964



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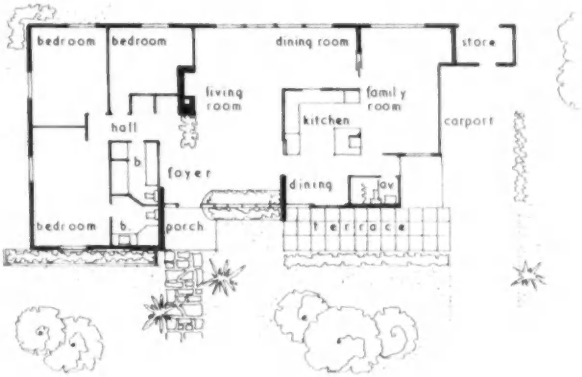

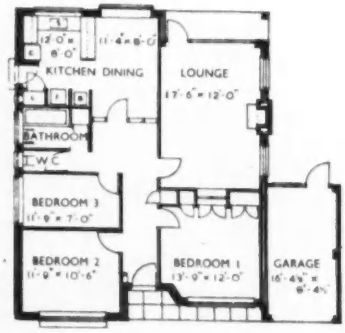

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AFTER 40 years, Mr. Vincent Goodman, FRIBA, Bedfordshire County Architect, has retired. An official farewell was paid to him at the meeting of the Bedfordshire County Council, when Sir Frederick Mander, the chairman, presented him with a pair of binoculars with the good wishes of all the members. Mr. Goodman joined Beds CC as an architectural assistant for school building under the County Surveyor. Since the war, he has been concerned with building for education, public health, welfare, police, fire service and other services.

Stevenage High-street's Future

MR. MISHA BLACK, OBE, RDI, co-ordinating consultant of the 'face lift' scheme that has made Magdalen-street, Norwich, a mecca for local authorities, visited Stevenage on February 29, when he took a look at the High-street to see if it could be given a new look, and to estimate the cost of such a project.

IoB Practice Arbitration

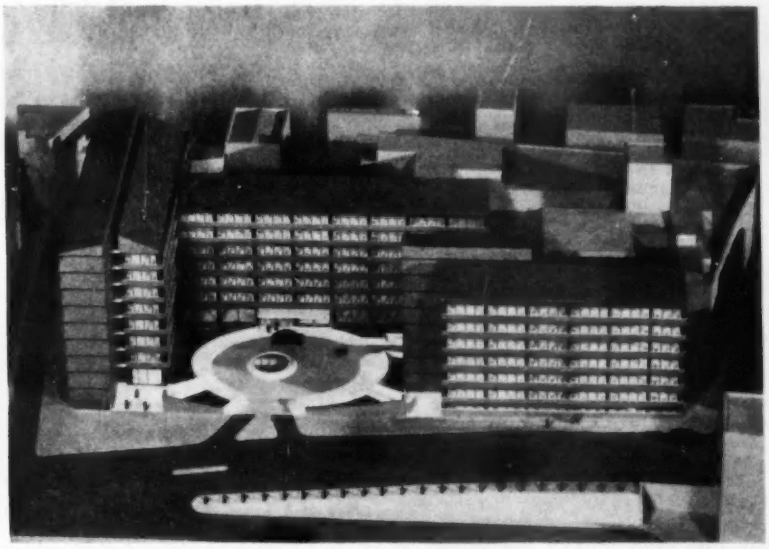
A PRACTICE ARBITRATION has been organised jointly by the Institute of Arbitrators and by the Institute of Builders to take place at the RIBA, 66 Portland-place, W1, on Wednesday, March 16 (6.30 p.m.). The case is being prepared by Mr. W. Tompkins, and Mr. J. R. W. Alexander, CBE, LLB, will act as arbitrator. Admission by ticket from the Secretary of the Institute of Builders, 48 Bedford-square, WC1.

University of Auckland

THE UNIVERSITY OF NEW ZEALAND School of Architecture, contrary to a note published in our issue of February 12, is recognised for registration only in New Zealand and examinations therefore do not qualify for registration under the Architects' (Registration) Act 1931. In giving this information, the Registrar of ARCUK makes clear that the School has never applied to the Council for recognition of its examinations and that therefore no derogatory inference as to their standard should be drawn from this statement.

Fears for Flatford Mill Allayed

THE Minister of Housing and Local Government has informed the South Essex Waterworks Company that he is not willing to allow them to take more water from the River Stour this summer. The decision follows an inquiry held by one of his engineering inspectors at Colchester on February 2 and 3. The Company's application had been opposed by the National Trust, who feared that reduction of the flow in the river would spoil the surroundings of Flatford Mill.



Complete reconstruction of the site round Printing House-square, EC4, is envisaged in carrying out the scheme shown in model above for rebuilding 'The Times' offices. The new square, which will overlap the site of the present one, will have the side to Queen Victoria-street open for its entire width. Architects are Richard Llewelyn Davies and John Weeks, F/ARIBA, in association with Ellis, Clarke & Gallannaugh. Demolition will start this spring and printing arrangements will continue on the present site until the whole scheme is finished; this is expected to be in 1964

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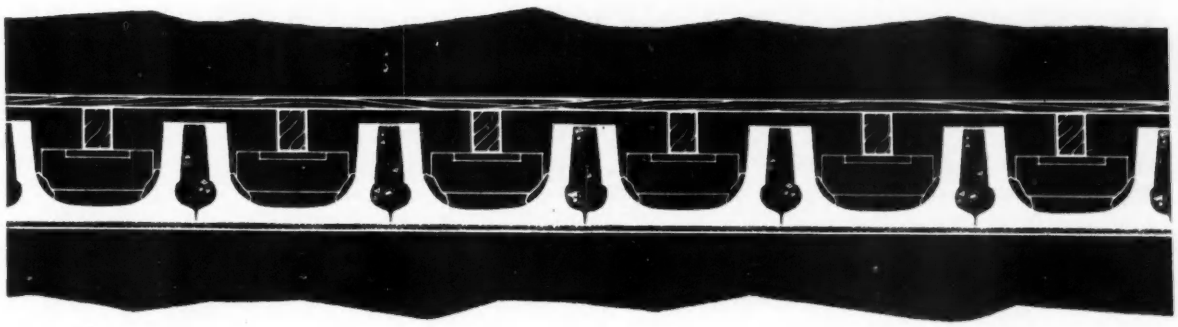

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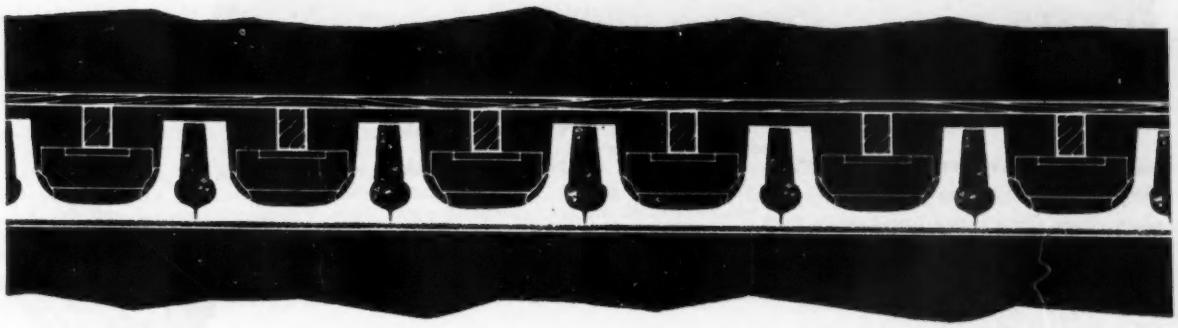

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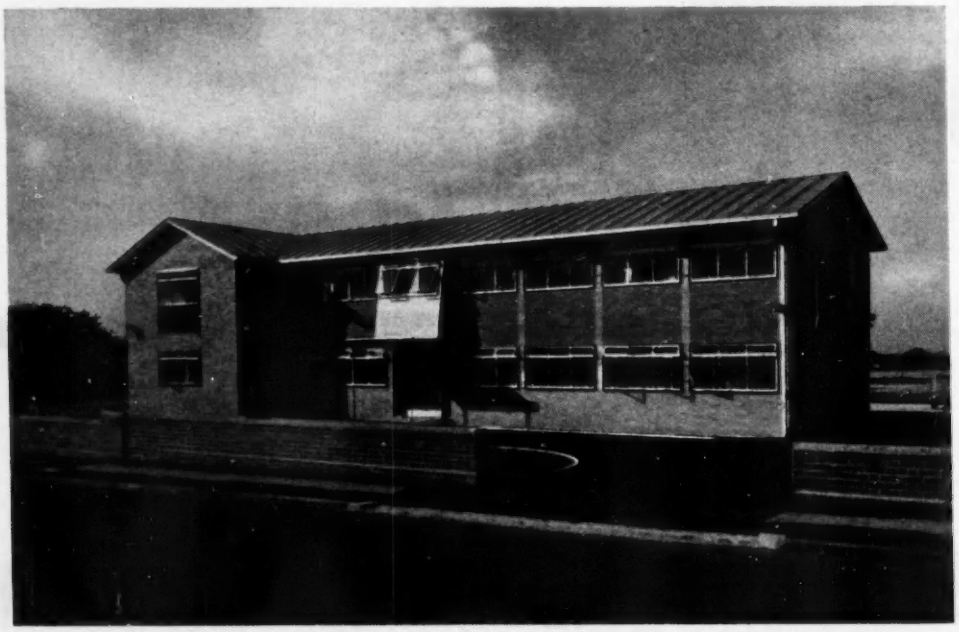

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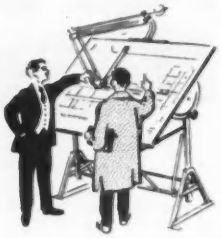

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Northern Polytechnic

Chairman's Comments on College of Advanced Building Technology Proposals

'WHILE we at the Northern Polytechnic think that our Department of Architecture, Surveying and Building has the strongest possible claim to be established as the College of Advanced Building Technology of which the Minister of Education has spoken, we should not fear competition if it were established elsewhere, as seems possible, provided we are given fair play in the matter of equivalent status.' MR BRIAN ROBERTS, MA, chairman of the governors, made this statement during his remarks at the annual prizegiving of the Department at the Northern Polytechnic, held on February 23. It was reported in 'The Builder' last week.

Mr. Roberts also referred to the fact that it was the last prizegiving which Mr. T. E. Scott, CBE, FRIBA, would be attending as head of the Department, a post he had held since 1928. His services since he first came to the Polytechnic in December 1920 as a teacher of building construction 'on probation,' had been immense, not only to the Department but to the Polytechnic as a whole. 'They are known and recognised throughout the worlds of architecture and education,' said Mr. Roberts. Since his appointment as head on the resignation in 1928 of Mr. (now Sir) Thomas Bennett, the Poly full-time and part-time courses in architecture had been granted full recognition by the RIBA, and recently the full-time and part-time courses in building technology had been approved in connection with the registration and exemption scheme of the Institute of Builders.

In presenting his report, MR. T. E. SCOTT spoke of the many changes he had seen in 39 years at the Northern Poly. Many more vital ones seemed imminent ('which is one reason why I wish this was my first and not my last prizegiving'). The new City and Guilds examinations recognised the changes in building techniques and materials and would provide a good basic qualification for the average man and well-graded stages of advancement.

On the subject of wastage among craft students, many educationists had for years been worried about the high incidence. In some of the crafts too few had survived the early years—'perhaps they have been discouraged by an over-dose of theory for which they were unable to see any practical use' said Mr. Scott. He continued: 'Some years ago I advocated the introduction of a basic training for the rank and file of intake. This was not welcomed either by the general body of teachers or by examining bodies. But it has come.'

Training for Executive Posts

It was in the training of men for the executive branches of the industry that the greatest advances would be made, said Mr. Scott. That should be possible as the result of the new scheme of examinations now being introduced by the Institute of Builders. 'The future of the industry may well depend upon its willingness to recruit, at an adequate salary and status, men who have been trained up to the standard so wisely laid down,' said Mr. Scott. 'Assuming this happy state of affairs, one's mind naturally dwells on the now popular topic of combined training and Advanced Colleges of Building. The Minister of Education referred to the matter at the recent Institute of Builders' Dinner; he also mentioned it at the same dinner in 1956. I wish he had also mentioned that the idea was presented to the Ministry of Works in 1954, having travelled there from Holloway-road via Catherine-street!

'Of course the idea of combined training was not a new one—it had been practised at the Northern Poly for 40 years. It could be a fine thing for architects, surveyors and builders to be trained in the same college, but only if both surveyors and builders studied up to Graduate level as do architects,' he concluded.

Prizes and certificates were presented by SIR GRAHAM SAVAGE (chairman, Board of Building Education) to whom a cordial vote of thanks was passed on the motion of MR. C. W. TONKIN and MR. IVOR W. ROWELL (chairman LMBA area No. 2). The chairman was thanked on the proposition of MR. H. C. LILLY (London region president, FMB).

Not the Way to the Stars

Royal Observatory Falls Foul of Hailsham Rural Council

WHEN HAILSHAM (Sussex) Rural Council's town planning committee discovered that a block of lavatories and a club room for the sports and social club of the Royal Observatory had been built in the grounds of Herstmonceux Castle without its approval, it wrote to the Astronomer Royal, Dr. Richard van der Riet Woolley, expressing 'strong disappointment.'

Dr. Woolley replied that he was sorry to learn of any disappointment, that he would inquire into the circumstances, and that he hoped the relations between the Astronomer Royal and the Council will 'always be in the future what I have supposed them to be during my period of office—of a co-operative and mutually helpful nature.'

After listening to criticisms about the structure of the club room, the committee decided to recommend the Council to bring the details to the notice of the First Lord of the Admiralty.

Discussing the recommendation, MISS M. HAMPTON asked: 'Aren't we being a little drastic in sending this complaint to the First Lord over the head of the Astronomer Royal? He appears to have apologised and has said he will make inquiries.' It had been reported, said Miss Hampton, that the lavatory building was satisfactory and that the club room was screened by trees. 'If we go to rock bottom, we have no power whatever. If it was a private individual, we should feel very annoyed, but this is a Government department.'

MR. LIONEL JONES: 'We would be pretty poor guardians of local liberty and interest if we did nothing just because it is a Government department.'

MR. JOHN WILSON: 'A Government department should set an example. They should be brought down to earth.'

The Council accepted the recommendation.

Liverpool College of Building

National Prize Winners

SOME OUTSTANDING national awards were won by students of the City of Liverpool College of Building for work during 1959. In addition to the major awards some 85 regional and local prizes were also won. The national award winners were: J. T. Aspinall, joiner (J. and E. Aspinall Ltd.), NFBTE Craft Apprentices Prize Scheme Silver Medal with certificate and £50; W. J. Woodside, apprentice wood machinist (W. F. Hollway and Bro. Ltd.), Worshipful Company of Turners' St. Catherine's Trophy, the Dugald Butler Silver Medal and £10, and the City and Guilds Silver Medal for Wood Machinists' Work; L. G. Griffiths, apprentice mason (H. A. Clegg and Sons Ltd.), prize of 5 guineas offered by the National Joint Council for the Building Industry and second prize of 2 guineas offered by the Worshipful Company of Masons; T. Owens, apprentice heating and ventilating engineer (G. N. Haden and Sons Ltd.), second prize of £3s. 10s. offered by the Education Board of the Heating and Ventilating Industries.

Manchester Direct Labour

Manager's Resignation Asked For

A RECOMMENDATION that the works manager of Manchester Town Hall works department be asked to resign is contained in a report of the corporation Town Hall Committee issued to the Press on February 26 by the Town Clerk.

An inquiry into the operation of the department during the past few weeks was made after it was criticised in a report by the City Treasurer. The committee's recommendations were: 'That the City Architect be relieved of his responsibilities for the control of the department, that the department should be placed under the control of an independent manager responsible to a separate committee of the council, and that the works manager be asked to resign.'

The report said that the inquiry had disclosed that the management of the department was inefficient and not able to deal with the responsibilities involved; that irregularities of a serious nature had occurred; that the City Architect had left most of the management to the works manager and had not known sufficient about the department to enable him to exercise proper control; that the manager had not sufficient administrative ability; and that the department could not function efficiently with its present supervisory and managerial staff or under the present organisation. 'The Times.'

Obituary

Sir Harry Selley ; Bronek Katz ; R. Cameron Smith

Sir Harry Selley

WE REGRET TO REPORT the death, which took place in the Royal Masonic Hospital on February 24, of Sir Harry Selley, JP, President of the Federation of Master Builders. He was 88.

There will be many in the building industry and in public life to regret the passing of one of the 'old school.' He was a man of commanding vigour in his younger days, who exhibited always a forthright but kindly manner, and was able in his eighties to give an expert demonstration of the bricklayer's skills.

Sir Harry Selley, although a Londoner by adoption, was born in Topsham and remained a Devonian in thought and feeling, despite his early migration to the opportunities of the capital. He brought with him £100, considerable building skill and abundant self confidence. Soon he had formed a partnership with another Devonian, who was also a life-long friend, and the enterprise of Swain & Selley flourished for 35 years. The firm built about 25,000 houses in south-west London. He was soon active in industrial affairs and became, in 1922, President of the then National Federation of House-Builders.

In 1925 Sir Harry entered public life as a member for Battersea on the London County Council. He had been chairman of the Housing Committee and the Hospital Planning and Development Sub-committee. From the affairs of the capital, he became occupied with national events and in 1931 became MP for South Battersea. His career in public life was recognised in 1944 by the award of a knighthood. He retired from Parliament the following year, when he became President of the Federation of Master Builders.

The genial and kindly side of Sir Harry's character was equalled only by his forthrightness. In 1954, as a protest against the 'target' for bricklaying set by the Ministry of Works, which he considered at 200 laid per working day to be 'absurdly small,' he completed a four-course wall of 200 bricks in 58 minutes. He was then 73 years of age. The demonstration took place in the courtyard of the House of Commons with the late Mr. George Hicks, then Parliamentary Secretary MoW as a spectator. Afterwards, Sir Harry stated that 800 bricks a day on ordinary cottage property was a reasonable target to set.

A. R. Walsingham, LRIBA

THE DEATH occurred on February 6 at the age of 64 of Mr. Arthur Rowland Walsingham, LRIBA, the Manchester architect.

I. R. Jones, ARIBA

THE DEATH occurred on February 14 at the age of 66 of Mr. Ieuan Roland Jones, ARIBA, principal partner of Messrs. Arthur Hewitt and Jones, architects, Llandudno.

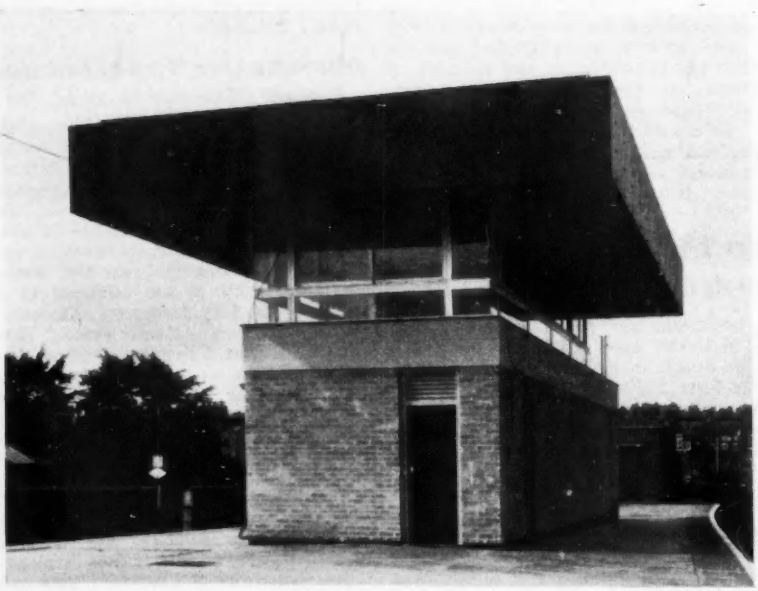
Bronek Katz

THE DEATH took place on February 27, in Switzerland while on holiday, of Mr. Bronek Katz. He was 47. He was born in Warsaw, and before settling in England in 1936 had qualified as an architect in Vienna. Mr. Katz had been in partnership in London with Mr. Reginald Vaughan, AADipl, FRIBA.

R. Cameron Smith, AMICE, ARICS

IT IS WITH regret that we record the sudden death, on January 31, at the age of 54 years, of Mr. R. Cameron Smith, AMICE, ARICS, MIMunE, Deptford MBC's Engineer and Surveyor.

Following pupilage with a civil engineering company, Mr. Smith entered the municipal service as an engineering assistant with the Borough of Camberwell in 1933, was promoted District Engineer in 1939 and in 1948 became the Deputy Borough Engineer and Surveyor to the County Borough of East Ham. He entered Deptford's service as Borough Engineer and Surveyor on February 1, 1951.



The large sun baffle which gives complete shade from direct sunlight, enabling small lights on the control panel to be seen without difficulty, is the main feature of the new Hackney Downs signal box which has been constructed in connection with the Eastern Region of British Railways' electrification programme. The sun baffle was required to be maintenance-free, and is made from polyester resin reinforced with fibreglass. The architect was H. H. Powell, FRIBA, under the general direction of A. K. Terris, MICE, Chief Civil Engineer, Eastern Region. The main contractors were Holliday & Greenwood, Ltd.

Planning Control of Farm Buildings

CLA's Comments

AS THE GOVERNMENT have now decided that some form of planning control of large farm buildings is desirable, states the Country Landowners' Association, the present proposals seem the fairest way in which to exercise that control. The possible alternatives to this method, says the Association, would have been far more irksome to landowners and farmers. They include:

(a) Control by what are known as 'Article 4 Directions.' These generally have the effect of bringing *all* farm buildings under control in a given area, and there is no right of appeal against the making of such a direction. The CLA hopes that in those isolated cases where the Minister has imposed such directions with the primary object of controlling broiler houses, they will now be revoked.

(b) The control of broiler houses by definition. The principle of exercising planning control of a building by reference to its function would seem to be unsatisfactory. It is a planning authority's job to consider siting, design and appearance—not the use to which a building is put. In any case, it seems impossible to find a satisfactory definition of a broiler house.

(c) The limitation of planning control to large buildings, which are more likely than smaller ones to impinge on their rural setting, seems to be reasonably fair. Plans for these buildings will probably be available in any case, so the application by the landowner for planning approval should not be unduly onerous.

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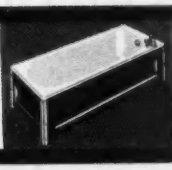

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The Week in Parliament

From Our Own Correspondent

Sites for 'Heliports'

IN RAISING the subject of helicopter passenger services, MR. NORMAN DODDS asked the Minister of Aviation on February 19 what progress was being made in providing suitably equipped heliports in or near the centre of London, and what were the proposals. He wanted to know if they were still considering the plan which he had put forward in 1952. During the last few days he had been talking to people in the helicopter world and they believed that there was a future for this and that a heliport was what would be needed over Charing Cross Station, or in a similar position, in the near future.

MR. G. RIPPON, Parliamentary Secretary, Ministry of Aviation, said there had been a considerable number of applications to the Air Transport Advisory Council which showed that plans to introduce scheduled helicopter services were being developed by British European Airways and independent operators. These had not yet been heard. It was not their intention to allow the various interests to stake out claims in advance before there were any real prospects of the commercial operation of these routes. Before the services could be introduced it would be necessary to have suitably-equipped heliports. Landing sites had been made available as and when required for the various services now operating but the real need for permanent sites would arise with the introduction of multi-engined machines.

Responsibility for heliports outside the London area rested with the local authorities and they were encouraging them to make provision for these in their development plans. In the London area, at Battersea, a small heliport was operating satisfactorily to deal with present traffic, but comprehensive facilities were being considered by a special committee which was appointed last July. This committee hoped to present an interim report fairly soon. It was particularly considering possible sites. He would not list them all but could assure Mr. Dodds that Charing Cross Station was among them.

Hospital Building and Private Architects

MR. BOYDEN asked the Minister of Health, on February 22, how the cost of employing private architects for hospital building compared with the cost of similar work performed by the architectural staffs of the regional hospital boards.

MR. WALKER-SMITH.—'Precise assessment is not possible, but there is normally a small saving on the cost of the project when the work is done by architects on the staff of Regional Hospital Boards.'

MR. BOYDEN.—'In view of the projected larger programme of hospital building, will the Minister take steps to see that the pay and conditions of architects of regional hospital boards are brought closer to those of architects in private practice, and also consult his colleagues in other departments to see that there is an adequate supply of architects available for training for both short-term and long-term appointments?'

MR. WALKER-SMITH.—'A joint review of salaries of architects of regional hospital boards was undertaken in January 1959 on the agreement of both sides of the Whitley Council. There have been proposals and counter proposals in regard to the remuneration of architects and I understand that an arbitration is now pending.'

Safety in Civil Engineering

THERE were cheers principally from Labour MPs when MR. EDWARD HEATH, Minister of Labour, announced on February 24 that he proposed to extend the definition of 'work of engineering construction' in the Factories Acts to include virtually all civil and constructional engineering work, and that he hoped to make regulations before Easter.

Questioned about the introduction of safety regulations following the fatal accident on the new Barton Bridge, Mr. Heath recalled that the recommendations of the inquest jury were, first, that the main contractor should appoint a fully qualified co-ordination officer and, second, that legislation would be introduced to ensure the safety of all concerned with this type of work.

On the first, he was glad to say that the main contractor had appointed a full-time professional consultant engineer and a full-time safety officer on the site. On the second recommendation there had been discussions with interested organisations in recent months and he was now taking action on the following lines. He then announced the proposal to extend the definition of 'work of engineering construction' with regulations being made before Easter and added—'A preliminary draft of special regulations to cover lifting operations on all types of construction work was issued on February 17. Regulations dealing with general safety provisions on construction work are being drafted and will be sent out shortly. A statutory draft of regulations covering diving operations was published earlier this week.'

SIR SAMUEL STOREY asked if the regulations would be enforced by the Factory Inspectorate and, if so, was the Minister satisfied he would have adequate manpower qualified to look after this work? Would he also ask the Minister of Transport to make it a condition when making grants to local authorities to undertake civil engineering contracts on his behalf, that they should appoint safety officers as had now been done at Barton Bridge? MR. HEATH pointed out that the responsibility for these arrangements rested on the employer and not on the local authority, but he would discuss the point with the Minister of Transport. Under the regulations, inspection would rest with the Factory Inspectorate, the numbers of which had increased since the 1959 Act.

DR. STROSS asked if the Minister would appoint to the Factory Inspectorate inspectors who had professional qualifications in building construction or in civil engineering, and to what extent such inspectors were now available.

MR. HEATH.—'Inspectors with these qualifications are already in post. At present eleven inspectors have professional qualifications or equivalent academic qualifications in building or civil engineering. Seven of them are stationed in divisions or districts; the remainder are at headquarters but are available to help divisional or district staff when necessary.'

Changes in Planning Powers

AS A RESULT of his consultations with the interests concerned with broiler houses, MR. HENRY BROOKE, Minister of Housing and Local Government, announced in a written Parliamentary answer on February 24 that he had concluded that all large agricultural buildings should be brought under planning control in order to ensure that they were sited with due regard to local amenities.

He said:—'I have today laid before Parliament an order to amend the Town and Country Planning General Development Order, 1950, for this purpose. The order, which will come into force tomorrow, will apply to agricultural buildings or groups of buildings which exceed 5,000 sq. ft. in area. I am today sending a circular to local planning authorities to advise them of the factors to be taken into account in the exercise of this control and stressing the importance of consultation and co-operation between the authorities and farmers and landowners in this matter.'

THE MINISTER has also amended The Town and Country Planning (Use Classes) Order, 1950, so that the change of use of a shop to use for the sale of motor vehicles will constitute development requiring planning permission. He says he is concerned primarily with the effect which these changes of use may have on road traffic and, in certain circumstances, on local amenity. It is not his intention to place unnecessary restrictions on the development of the motor trade in response to public demand; and he asks planning authorities to withhold permission for such a change of use only if satisfied that the particular proposal is objectionable on traffic grounds or for some other substantial reason.

The Cost of Land

THE BURDEN which the high cost of land was imposing on local authorities plus the effect on building programmes was mentioned by several Labour MPs on February 25 during a debate on an Opposi-

A Singapore reader, Mr. Joseph Stahl, sends us the photographs reproduced on this page. One is of a building in downtown Singapore encased with scaffolding built entirely of wood tied together with strips of pandanus leaf fibre. The second view is of a Chinese woman carrying sand for mortar-mixing; at least half of the labour on Singapore building works is done by women, according to our correspondent

tion motion calling for a fresh inquiry into the financial relationship between central and local government.

MR. JAMES MACCOLL said the Opposition accepted the need for increased expenditure for the expansion of local authority services. That put an increased burden on the rates and they wondered whether the Government were paying their fair share of the heavier cost. The increase in the rate of interest had had an enormous effect on local authorities. Then there was the cost of land, something due to the policy of the Government.

He was not saying whether the policy was right or wrong, but as a result of the Town and Country Planning Act, 1959, local authorities had to pay full market value for land; not just existing use value, which would sound reasonable and fair, but the development value, taking into account all future development which was often carried out by the same authority that bought the land. If it was argued that this was good policy then the cost of carrying out services the Government required should fall on central Government funds and not on the rates. It was also absurd to keep derating industrial hereditaments.

Policy of Expansion

SIR KEITH JOSEPH, Parliamentary Secretary, Ministry of Housing and Local Government, moving a Government amendment which, after a division, was agreed to, said both parties were dedicated to expansion. There had been a greatly increased volume of housing, on an average 30 per cent above the Socialist record, an enormous increase in the number of houses built for the elderly and a huge campaign which already had rehoused 600,000 people from the slums. These extra services had to be paid for and as they were of local benefit, it was right that part of the cost should fall on the local ratepayer. Splitting the extra cost between taxpayer and ratepayer was in exactly the same proportion as it had been since the war. There had been no complaint from local authorities about the general grant but if they had any disagreement about distribution the Minister would be glad to hear from them.

Loan charges accounted for only 10 per cent of total local authority expenditure and charges on loans borne in a single year only, on average, 10 per cent of that. The result on the rate burden of an increase of one per cent in Bank rate would have a trivial influence on rates as a whole, but, of course, it could be extremely important in its effect on an individual house or group of houses. Differential rent schemes were the way to temper the wind of rising interest rates to the individual tenant who could not afford to pay.

He found it extraordinary that Mr. MacColl was able to attack the Government on the cost of land while reserving the decision whether the Government's policy was right or wrong. Mr. MacColl agreed with the policy of holding the Green Belt and knew as well as he that this was an overcrowded island with limited land. Objection had been made to market price being paid for land compulsorily acquired. He did not know whether the Labour Party wanted to go on record as being opposed to market price, but the increase in the purchase price of land to market value, as a result of the 1959 Act, was taken into account in assessing the first General Grant. The poorer local authorities had the benefit of rate deficiency grant, and specific grants, particularly for housing, came to the help of all concerned.

MR. WILLIAM BLYTON said the average building tender for a council house had not altered much. In 1952 it was £1,391 and in 1959 it was £1,500 but there was a different picture with interest charges. The Minister should have told them that 262 councils had ceased building although the need for houses continued in their areas.

DR. H. KING said every local authority to-day was fleeced when it bought land for houses, schools and fire stations. Good local governing and steady development of housing and school programmes were jeopardised by the fantastic price of land.

MR. MICHAEL STEWART said that two types of 'emergency ambulance action' were needed—some kind of preferential treatment for local authorities on interest rates and the full re-rating of industrial hereditaments.

MR. HENRY BROOKE, Minister of Housing and Local Government, said the formula of the general grant to local authorities would be under re-examination in the course of the next few months with the local authority associations before the general grant was fixed for the period beginning next year. Any changes in interest rates consequent on the recent rise in Bank rate must be entirely marginal.

What was meant when Dr. King talked about local authorities being 'fleeced' on the cost of land? Was it meant that local authorities should have power to buy land compulsorily below market value? The Government carried through the Town and Country Planning Act 1959 with, he thought, the goodwill of virtually the whole country and if the Opposition now said that local authorities were being unfairly charged because they were having to pay market value, they would not carry public opinion with them. He saw no cases for a fresh inquiry into the financial relationship between central and local government.

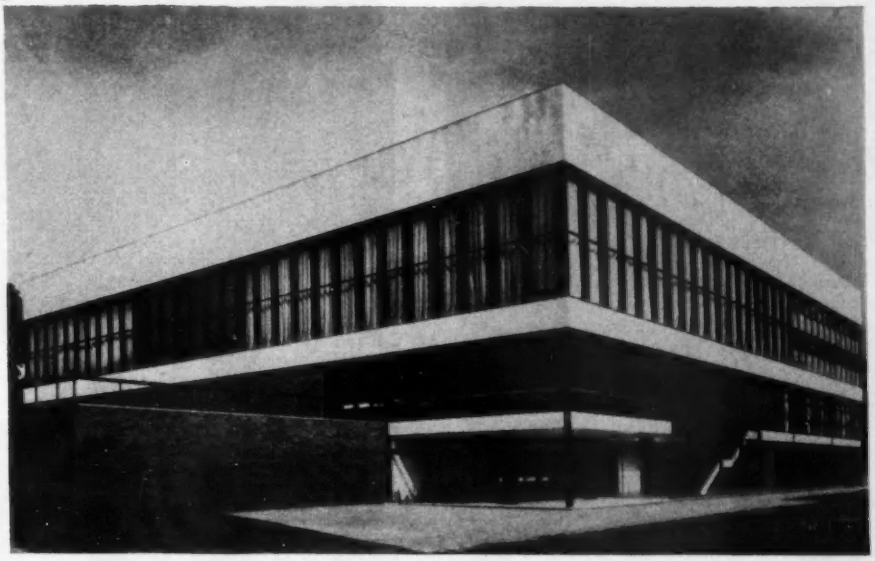
Accommodation for MPs

MEMBERS OF PARLIAMENT are on the warpath complaining about their accommodation facilities in the Palace of Westminster, and on February 23 LORD JOHN HOPE, Minister of Works, answered a series of questions including one by MRS. CASTLE asking what decisions had so far been reached about the extensive building operations visualised by the Select Committee on Accommodation, 1953-54. THE MINISTER replied that he was considering various plans for providing additional accommodation for the use of MPs, and as a first step he was making available space in Nos. 6-7 Old Palace Yard, as already announced on December 1 last. This would be ready at the beginning of March.

During the exchanges, MR. DONNELLY commented that there was no answer to this problem except the building of a private office block for the House of Commons. Could the Minister tell them whether any consideration was now being given to that?

LORD JOHN HOPE replied: 'Consideration of that problem, as of other similar problems, is being given.'

THE MINISTER added that he realised the House wanted something substantial done and that members did not want the accommodation to be too far away. Within these limits he was sure they realised it would not be easy to find a solution but he was doing his best to find one.



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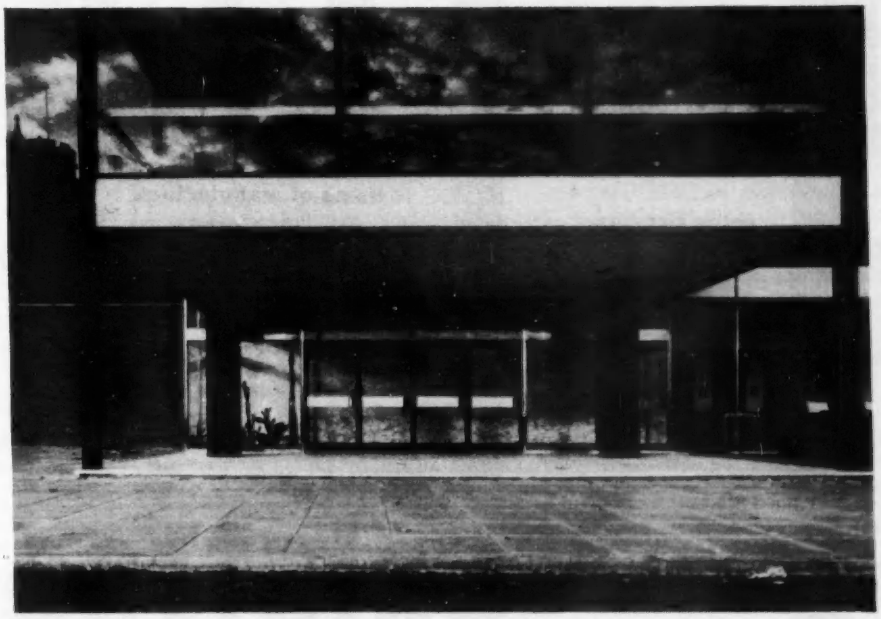

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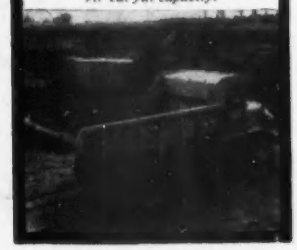

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Other Business

Hard Shoulders on M1

Criticism of the state of the hard shoulders on M1 was referred to in a question to the Government in the House of Lords on February 11 by EARL HOWE.

LORD CHESHAM, Parliamentary Secretary, Ministry of Transport, replied that the hard shoulders of grass construction on the motorway were still immature and not fully consolidated. The Minister was aware that in places they had received much heavier usage than was expected and had suffered considerable damage in consequence.

He added: 'All the Chief Constables concerned have commented adversely on the state of the grass shoulders in their reports about traffic conditions on the motorway, and have drawn attention to the difficulties which arise when heavy vehicles have to stop on the motorway in emergency. The Minister is giving urgent consideration to the steps which can be taken to strengthen the construction of the grass shoulders.'

Issue of IDCs

There was no variation of practice in granting or refusing industrial development certificates between the various regions of the country depending on which official was in charge, explained MR. JOHN RODGERS, Parliamentary Secretary, Board of Trade, in an adjournment debate on February 11. 'The decision in cases of difficulty is taken by me personally,' he added, 'and in some cases where an appeal is made, I review the decision, and previous decisions have, in the past, been reversed.'

Loans for New Steelworks

Under the provisions of the Iron and Steel (Financial Provisions) Bill, published on February 11, loans will be able to be made from the Consolidated Fund of up to £50m. to Colvilles, Ltd., for the construction of a strip mill at Ravenscraig, Lanarkshire, and up to £70m. to Richard Thomas and Baldwins for the expansion of sheet capacity at Newport.

Architectural Advice on Roads

MR. MALCOLM MACPHERSON asked the Secretary of State for Scotland what provision he made in the design of new roads, and in particular new motorways, for bringing architectural advice to bear from the earliest stages.

MR. J. S. MACLAY wrote in reply on February 16.—'The design of new roads is principally an engineering matter but where necessary I can be advised, not only by my engineers, but also by my planning and architectural staff. Where important structures are involved, the views of the Royal Fine Art Commission for Scotland are obtained and independent architectural advice may be sought.'

Land for Housing, Scotland

Asked how many acres in Scotland had been used for new housing schemes from 1950 to 1959 inclusive, MR. T. G. D. GALBRAITH, Under Secretary, Scottish Office, said on February 16.—'No exact figure is available, but it is estimated that some 29,000 acres were used for new housing schemes in that period, not all of which is lost to agriculture.'

Reconstruction Work, Mauritius

The Colonial Secretary, MR. IAIN MACLEOD, indicated during questions on February 16 that discussions were proceeding with a Mauritius delegation about financing the work of reconstruction in Mauritius which was severely damaged by a hurricane recently. Stating that he could not anticipate the conclusion of these talks, Mr. Macleod said the direct cost of the work to the Government of Mauritius appeared to be about £900,000. The proposals put to HM Government covered about £6.5m. and therefore clearly went beyond the question of replacement and must be considered on the basis of comparative need as part of a reconstruction programme.

*A new cyclone is now reported to have struck the island and to have caused much more severe damage.—Ed.

Tilting at Westminster

There was laughter during question time on February 23 when LORD JOHN HOPE, Minister of Works, told MPs that the Clock Tower of the Palace of Westminster was about 15 inches out of vertical towards the north-west, and that Victoria Tower was out of vertical towards the south-west by about the same amount.

Asked by MR. LIPTON what action he was taking to remedy the 'structural defects,' LORD JOHN HOPE said.—'Both towers are being kept under close observation, but there is no indication that the tilt is of recent development in either case, nor is there any cause for concern as to the safety of the Towers.'

More laughter occurred when Mr. Lipton commented.—'While we all regret that Parliament is not as firmly based as we thought, will the Minister nevertheless continue to keep a watchful eye on the situation and try to get things straightened out as soon as he can? London has sufficient tourist attractions without adding the leaning towers of Westminster to them.'

Hospital Building Programme

The Minister of Health, MR. DEREK WALKER-SMITH, announced in a written answer on February 29 that he had asked Regional Hospital Boards to bring to completion the planning of a number of additional major hospital projects. A list of these projects, which are likely to cost around £20m., will be given in a subsequent issue.

Building in the City

New Development Near St. Paul's Approved

A PROPOSED BUILDING over the entrance to St. Paul's Underground station came before the Court of Common Council at their meeting on February 26. On the recommendation of the improvements and town planning committee, they granted permission on an outline-application for the development, subject to certain conditions, of the site bounded by Newgate-street, the proposed St. Paul's-place, realigned Paternoster-row and Panyer-alley (west side).

The proposed development, for which the architects are Messrs. Gotch and Partners, 8 City-road, EC1, is the erection of a 7-storey building for use as shops and offices, the construction of a new entrance to the Underground station, and the layout of the residual land as a pedestrian area.

Another recommendation of the committee which was passed was permission for the erection, subject to certain conditions, of an 18-storey office building with shops, a public house, a restaurant and a basement car park at 63 to 72 and parts of 73 to 77 Wood-street, part of 5 and 6 to 17 and part of 25 to 35 Monkwell-street, 1 to 10 Fell-street, 155 to 159 London Wall, parts of 2 and 8 and 3 to 7 Winchester-avenue, parts of the rear portion of 2 to 6 Silver-street and the highways of Monkwell-street, Fell-street, Winchester-avenue, Salters-court and part of Wood-street Square (Site M in redevelopment unit No. 4).

One of the conditions is that provision must be made for the joining up of the walkways along London Wall, and a connecting bridge must be provided linking this development with the proposed nearby residential development. Architects are Messrs. Bernard Gold and Partners, 1 Hay-hill, W1.

The Court also gave approval to drawings and details of materials for the following developments:

Erection of a 7-storey office building, with a basement car park, in two stages, at St. James-court, 16 to 22 (even) Heneage-lane, part of Heneage-lane, 1 to 4, 31 and 32 Bury-street, 9 to 15 (odd) and part of 17 Creechurch-lane (architects, Messrs. Gotch and Partners, 8 City-road, EC1).

Erection of a building comprising two basements, ground floor and six floors over for use as a car park in the two basements with entrance on part of the ground floor, for use in conjunction with the two 'Daily Mirror' buildings, a public house on the ground floor and the remainder of the ground floor for commercial showrooms and six upper floors for use as offices, with a caretaker's flat and a tank room, etc., on the roof, at 15 and 17, Plough-place, part of 17 to 23 Bartletts-buildings and the site extending to New-street and Thavies Inn and part of 16 New-street Square (architects, Messrs. Anderson, Forster and Wilcox, of Stone Buildings, Lincoln's Inn, WC2).

'Commercial Fringe' Model on View

A model of the 'commercial fringe' on the south side of the proposed Barbican Scheme is now on view in the City of London information centre, opposite St. Paul's Church.

The model was first displayed by the City Corporation last Friday and it will remain on view for two weeks.

Accidents in the Building Industry

Call for United Effort to Reduce Toll

THE NEED for a united effort by employers and operatives to reduce the toll of accidents in the building and civil engineering industries, is urged by Mr. T. W. McCullough, Chief Inspector of Factories, in his introduction to a four-year survey of safety and health in these industries which was published as a White Paper on February 25*.

Mr. McCullough states that although his annual reports have included short sections on accidents at building operations and works of engineering construction, the importance of safety, health and welfare in those industries, and the special nature of some of the problems, have made him feel that a fuller report and more detailed information should be given from time to time.

This report, which covers the period 1954-58, has sections dealing with the law affecting safety, health and welfare in building and civil engineering accident statistics, safety training and health and welfare. Future reports of a similar character will be published covering periods of from three to four years.

The decision to publish these reports has been welcomed by the Joint Advisory Committee on Safety in the Building and Civil Engineering Industries, which represents both sides, and which was set up in 1957 by the Minister of Labour to consider ways of stimulating interest in problems of safety and health in the industries with a view to reducing the numbers of accidents and dangers to health.

During the period under review, and particularly in 1958, accident figures have risen, although it is difficult to say exactly what significance the rise had.

'One thing is clear,' the Chief Inspector comments, 'there are still far too many accidents on construction work, and employers and operatives alike must continue to use every endeavour if real progress is to be made in making the industries safer.'

The Legal Requirements

The report outlines the legal requirements relating to safety and health on building operations and works of engineering construction, examines some of the more important causes of such accidents and refers to some of the developments which have taken place in the methods of training for safety. The most encouraging of these developments has been the establishment of a number of safety training centres.

These centres, the Chief Inspector states, can cater for only a small proportion of those employed in the industries and in addition to their work, it is vital that individual firms, trade unions and employers' organisations, should pay far greater attention to training in safety if the accident record of the industries is to be improved.

Dealing with the work of the Factory Inspectorate, he notes that the special problems involved in inspection arise from the varied nature of the operations and because, as work progresses, the risks involved on each site change from day to day and even from hour to hour. Normally there are about 25,000 sites in existence at any one time and inspection of them is a task of considerable magnitude. Apart from inspection of sites, Inspectors of Factories engage in a number of activities which help to disseminate information and advice about safety and health throughout the industries.

'In the last resort,' Mr. McCullough concludes, 'the power to improve the safety record of the industries, rests with the industries themselves. A sense of responsibility and of the need for co-operation must pervade all ranks of management and workers alike if the toll of accidents is to be reduced.'

Any marked improvement in safety standards, the report indicates, is likely to be brought about only by bringing to the notice of all engaged on the work, both employers and employees, the risks and hazards to which they may be exposed, and the means of overcoming them. Recently great attention has been given to the problems of publicising accident risks in the industries and to providing means of educating members of the industries in the principles of safe working.

It is particularly important that young persons entering the industries should be inducted into safe work procedures, as good practices developed at the beginning of their career are likely to remain with them. The need is greater than ever because of the increased numbers of young persons who are expected to enter the industries in the next few years because of the 'bulge' in school leavers.

* Report on Safety and Health in the Building and Civil Engineering Industries, 1954-58; Cmnd. No. 953; HMSO, price 1s. 6d.

Decorators and Designers

Institute's Concession to RIBA Students

THE Incorporated Institute of British Decorators and Interior Designers have announced that exemption from their intermediate associateship examination is now granted to candidates who have passed the intermediate examination of the Royal Institute of British Architects.

Examinations 1960.—The 1960 associateship examinations of the Institute will be held from June 27 to July 1 next at various centres throughout the country. Applications to sit should be submitted by March 31. Full details, forms and particulars may be obtained from the Secretary at 37 Soho-square, London, W1 (Telephone Gerrard 5056).

Basic Materials

Averages Show Price Stability

THE TWO YEARS 1958 and 1959 were the most stable for prices, both of basic materials and of manufactured goods, since the Board of Trade first introduced their price indices in 1949. Basic materials tended to rise by the end of last year, but in December the price index was still only 2 per cent above the level of December 1957. The Index of all manufactured products rose only about ½ per cent over this period.

The index of the cost of new construction work remained unchanged throughout 1959. Building materials prices were fairly steady apart from an increase of less than one per cent in November. In February 1959 operatives were granted an increase of one penny an hour as a result of the sliding scale agreement which links the hourly wage rates of operatives in the construction industries to the index of retail prices.

Commodity	Annual Averages			
	1956	1957	1958	1959
Coal	127·1	136·5	140·8	139·0*
Slates	116·4	128·9	133·5	136·1
Refractory goods, including bricks...	113·9	121·4	123·9	127·2
Non-refractory goods, including bricks	106·8	110·0	110·1	110·6
Building bricks, common, other than fletton, ex-works	109·3	111·3	111·6	113·2
Building bricks, fletton common, delivered	101·7	104·5	105·2	105·2
Glass (other than containers) ...	110·2	116·2	120·0	121·4
Cement, delivered ..	106·8	111·8	115·3	115·3
Cast stone and cast concrete products	102·3	103·8	103·2	102·5
Synthetic resins and plastic materials...	96·4	94·6	93·7	90·3
Paint for building and decorating ...	102·8	108·6	109·0	108·7
Steel sheets	112·5	124·6	128·1	126·8
Aluminium and aluminium alloy products (extruded and drawn) ...	119·5	124·1	123·3	124·4
Galvanised cisterns, tanks & cylinders	116·4	119·8	112·6	115·8
Home-grown hardwood	113·1	110·9	102·2	98·4
Wallpaper	111·0	113·9	119·8	119·8
Aluminium virgin ingot, delivered ...	122·0	126·3	118·2	115·5
Copper, ex-ship, wharf or warehouse	132·4	88·3	79·4	95·6
Lead, ex-ship, wharf or warehouse ...	120·6	100·2	75·5	73·4
Zinc, ex-ship, wharf or warehouse ...	124·9	104·4	84·2	104·9
Imported hardwood, ex-yard or wharf	103·9	105·5	104·0	103·8
Imported plywood (delivered to consumers)	91·5	95·1	96·5	93·4
Imported softwood (delivered to consumers)	109·5	109·7	102·1	95·4

* Provisional.

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London County Council

Office Building; Incentive Scheme; The Housing Situation

IN REPLY TO MRS. LEILA CAMPBELL, who asked whether the new use-category C proposed in the Review of the Development Plan was sufficient to keep office building within reasonable limits, and whether it would enable his committee to discharge excessive or unsuitable development, MR. RICHARD EDMONDS (chairman of the Town Planning Committee) said: 'This is a matter with which we are all concerned and which must be kept under constant review. It is, however, the expectation and intention of the Committee that the new use-category should be sufficient.'

Asked about the increasing amount of vacant office space in central London MR. EDMONDS said that no definite information was known and no special action was contemplated.

Incentive Scheme

MR. J. A. PARKER asked the chairmen of the Housing and Finance Committees whether the Council had a bonus incentive scheme for general maintenance work on its dwellings. MR. FISKE, replying for both committees, said that there was such a scheme, though not compulsory, on work that could be properly evaluated.

The Housing Situation

MR. ROBERT VIGARS asked the chairman of the Housing Committee about the large numbers of applicants on the revised waiting list for each dwelling likely to be completed from 1960 to 1962. Mr. Vigars also asked whether, in view of the heavy demand for the larger type of dwelling, the programme could not be adjusted to provide more of this size. In reply MR. W. G. FISKE said that the Council were making available more large dwellings by the purchase of existing properties and conversion where necessary. 'The liabilities which govern the Council's housing programme,' he continued, 'spread far beyond the waiting list and include rehousing from clearance operations. This matter will be the subject of a comprehensive review when the results of the survey of occupation of the Council's dwellings are known.'

In connection with the review of the housing waiting list for 1960-62, MR. VIGARS asked whether the chairman of the Housing Committee would arrange for housing applicants to be informed of the present situation with a view to encouraging those who could to seek their own accommodation. He was referring to the present estimated rate of 1,000 successful applicants per year and the possibility that the last applicant on the list would not be offered accommodation for 54 years.

MR. FISKE stated in reply that the Council were expecting to house a considerable number of applicants in new and expanded towns. Many applicants would be housed through clearance operations and others on various priority grounds; a number would be housed by the Metropolitan Borough Councils and it was hoped that private enterprise would make some contribution. He concluded by saying that the position had been made clear to all applicants.

Swedish Prefabricated 'Hearts' for Houses

£7m. German Order Under Negotiation

A SCHEME that is likely to result in a most interesting Swedish-German collaboration on the building-technical front is at present the subject of negotiations between the Swedish contractors AB Skanska Cementgjuteriet, Malmö, a number of Cologne industries and the Bonn authorities. The negotiations pertain to the Germans building 5,000 single-family houses with Swedish methods and Swedish technical assistance, states the Swedish International Press Bureau, Stockholm.

A representative of Skanska Cementgjuteriet, Mr. Bo Bouvin, states that his company has agreed to build 18 experimental units for German inspection. The two German architects who designed the houses have visited the Swedish company to study their building methods.

What has particularly caught the interest of the Cologne planners is the compact prefabricated 'heart' made by Skanska Cementgjuteriet and extensively used in Swedish housing construction. It consists of a central concrete unit containing bathroom, toilet, laundry, heating boiler and hotwater producer and a fully equipped semi-kitchen, round which the house is built up with any desired building material. The 'heart' which—for Swedish use—is being quantity produced at one of Skanska Cementgjuteriet's factories, contains very comprehensive equipment and can be taken into immediate use as soon as plumbing and electricity have been connected up. The units are delivered on pallets via rail or trailer.

If the housing scheme materialises—of which the Swedish company has good hopes—this would entail a contract worth nearly £7m. The houses are intended for the employees of three large Cologne industries, Ford, Esso and the plastics manufacturers Glansdorff, and they would constitute together an entire suburb.

Reconstructed Stone

Some Notes on its Use in Building

'OVER THE PAST FEW YEARS, and in company with other manufacturers of reconstructed stone, we have been very concerned at the growing tendency towards the use of smaller and smaller sections of reconstructed stone in the design of buildings (writes Mr. C. J. Tatham, general manager of John Ellis and Sons, Ltd.). This has resulted in damage in handling and fixing with resultant delays in progress on the site due to the time taken to manufacture replacements.

'As this firm have had over 50 years' experience in the manufacture of all types of reconstructed stone, we have prepared some notes which we feel would be helpful in indicating the minimum dimensions which, from our past experience, are desirable from the angle of production and satisfaction in use.

'We suggest that the minimum dimensions of any section should not be less than 2½ in., and the minimum cross-sectional area of stone 11 sq. in.; as far as lengths of stone are concerned, we are of the opinion that sections of 11 sq. in. should not exceed 3 ft. in length, sections of 30 sq. in. should not exceed 4 ft. in length, and sections of 45 sq. in. not more than 6 ft. in length.

'This information is intended as a guide and applies to reconstructed stone comprising a facing of crushed natural stone and white cement with a backing of granite concrete; it is hoped that it may prove useful to architects and others.'

Motor Works Expansion

Proposed Merseyside Development

IN ORDER to meet the rising demand for cars and commercial vehicles manufacturers are formulating plans for expansion over the next few years. In addition to certain new buildings in the Luton/Dunstable area, Vauxhall Motors Ltd. propose to construct a new commercial vehicle factory on the south side of the River Mersey.

Stage I, which is expected to take two years to complete, covers the erection of buildings to house a press shop, facilities for body build, paint and trim, and the final assembly of commercial vehicles, together with buildings and plant for associated services. Stage II is planned to cover the further development of the site into a highly integrated commercial vehicle plant.

Concurrently with the development of the new factory on Merseyside, certain less extensive building projects will be undertaken at the present sites in the Luton and Dunstable areas. At Dunstable work will start, as soon as planning permission is obtained.

At Luton, new construction is confined to a new building to house the company's medical and rehabilitation headquarters, personnel and welfare activities and additional canteen facilities; and an extension to present office accommodation for technical staff. The company has under consideration at a later stage the construction of a new design and research headquarters on company-owned land.

Stage I of the programme is estimated to cost about £30m.

The Ideal Home Exhibition

Home Decoration and Design

THIS YEAR'S Daily Mail Ideal Home Exhibition, now open at Olympia, offers a wide choice in home decoration and design. Two bathrooms displayed by BILSTON FOUNDRIES LTD. show what can be done in limited space by skilful choice of colours and the new 'Princess' 60-in. bath, which has an integral front panel in American style. FORMICA LTD. present a 'Dream' kitchen and bathroom, both featuring Formica surfaces. A full colour and pattern range is shown, including the Sequin and Pennant designs. THE MARLEY TILE CO. LTD., in its usual position near 'the village,' is displaying a wide variety of its products, including floor tiles, MarleyFlor, sheet vinyl floor covering, vinyl wall tiles, Space-Saver doors and surfacing materials like Marleybord, Marleyfilm, Marleydecor and Marlica. Part of the display by the ELECTRICAL DEVELOPMENT ASSOCIATION includes electric water heaters, refrigerators and cookers, whilst the GAS COUNCIL have a complete installation of central heating using small bore piping.

Amongst paint manufacturers, BLUNDELL, SPENCE & CO., LTD., are showing their Pammastic emulsion paints for exterior and interior use on all types of surface. ICI PAINTS DIVISION (DULUX AND DU-LITE) devote their stand to the demonstration and sale of the book 'Colourful Homes,' with its 'Colour Comparator' and 'Painting Guide.' Visitors will see illuminated colour transparencies of completed schemes of decoration and will also be able to watch a recorded programme on an automatic back projector. Modern colour schemes are also featured in the GOODLASS, WALL AND CO. LTD. display, which is showing the 'Valspar' range, including lacquer, eggshell lustre and emulsion paints. The WALPAMUR stand displays a new layout, comprising hall, living room, dining-kitchen area, study, bedroom, bathroom and nursery. Each room is finished in matt Walpamur water paint, emulsion, or flat oil paint, with steamproof Darwen Satin Finish in the bathroom and Duradio five-year enamel in the kitchen.

Included in the equipment being exhibited by JOHN M. PERKINS & SMITH LTD. are the Mason Master and Blue Flash masonry drills with copper-brazed tungsten carbide tips, for use on all electric drills. FIRTH CLEVELAND TOOLS LTD. are also showing the full range of Surform and Surcut tools. An expert from WOODWORM AND DRY ROT CONTROL LTD. is at the RENTOKIL LTD. stand, who are showing, among other things, their Rentokil woodworm killer. A selection of wallpapers from the new 1960 Crown range can be seen at the stand of the WALLPAPER MANUFACTURERS LTD.; and entirely new wallpapers and furnishing fabrics are exhibited by ARTHUR SANDERSON AND SONS LTD. These include a new cork-faced wallpaper.

Other exhibitors include NEWTON CHAMBERS & CO. LTD., who are showing their newest coal or smokeless-fuel open fire —the Redfyre Convector 2 which heats by convection and radiation, BAKELITE LTD., demonstrating the incursion of their 1960 Warerite range into every room in the home and PHILIPS ELECTRICAL LTD., who are exhibiting their complete range of domestic electrical appliances.

The exhibition is open till March 26.

Official Notifications

Import Duty Drawbacks

THE TREASURY have made the Import Duty Drawbacks (No. 3) Order, 1960. This Order, which came into operation on March 1 and has been published as Statutory Instruments 1960, No. 281, reduces the rates of drawback of import duty on (a) certain square sawn wood and timber and wooden veneer sheets used in making exported sewing machine woodwork of specified types, and (b) imported linseed oil used in the manufacture of certain exported goods. The new and previous rates are set out in the schedule to the Order.

Personal Column

Associated Electrical Industries Ltd. have appointed SIR ARTHUR ELTON, BART., to be the Controller of their Central Information Department. He will take up his duties on March 1.

MR. C. E. M. HARDIE, OBE, has been appointed chairman of Ronuk Ltd. He succeeds MR. P. W. FELTON, who has been chairman for the past 15 years. Mr. Felton will continue as a member of the board.

MR. L. B. AUGER, south eastern area representative of Grange-Camelon Iron Co. Ltd., has retired after 44 years service with the company.

Causeway Reinforcement Ltd. of Five Ashwks., Dover-rd. East, Northfleet, Kent, have appointed MR. T. C. LEACH to be their representative in the five Midland counties for their surface armouring and multi-purpose trestles. The company have also appointed MR. C. T. WITHY as their representative in Lancashire and Yorkshire as from February 1 last.

With effect from February 28 Y. J. LOVELL & SON LTD. has been reconstructed. The businesses will be controlled by Y. J. LOVELL (HOLDINGS) LTD., and the following new operational units will be added to the existing subsidiary companies: Y. J LOVELL (BUCKS) LTD.; Y. J. LOVELL (SUSSEX) LTD.; Y. J. LOVELL (LONDON) LTD. and LOVELL PLANT HIRE LTD. Management and executive personnel will continue their association with the respective companies and the financial control of the Lovell Group will remain unaltered.

MR. E. H. BATE, who retired last year as the chief civil engineer to the Ministry of Works, London, has been appointed civil and structural engineering consultant with Morgan & Co. Ltd., consulting engineers of Leeds.

ADAMS DESIGN ASSOCIATES, Chelsea, London, have been retained by The Airscrew Company & Jicwood Ltd., manufacturers of Weyroc Products, to create exclusive designs for Hardec and Weydec, the decorative melamine plastic-surface boards, and to advise on all matters appertaining to design and architecture. MR. TOM ADAMS is the principal consultant. His associates are MR. BARRY DANIELS, MR. PETER ADAMS, and MR. COLIN HUNTLEY.

MR. E. NEEDHAM has been appointed managing director and consultant of S.G.B. (Steeplejacks) Ltd.

Builders' Benevolent Institution

Election of Officers

THE 112TH annual general meeting of the Builders' Benevolent Institution was held at 47, Bedford-square, London, WC1, on February 17. The president, Lt.-Col. T. G. Galbraith, FIOB, was in the chair.

In his address THE PRESIDENT referred with great satisfaction to the considerable amount of relief work among master builders and their dependants which had been accomplished by the Institution during the year, and said that a major achievement had been the incorporation of the regional federations in the framework of the Institution. Arising out of this, representatives of the regions would in future serve upon the management committee and as a result the work of the Institution would extend to the whole of the country and no doubt bring to light many cases of distress. The President thanked the regions for their co-operation and cordially welcomed their representatives who were present at the meeting.

Officers were elected as follows:

President: P. Fotheringham-Parker.

Vice-President and Hon. Treasurer: H. J. Falkus.

Auditors: Knox, Cropper, Gedge & Co.

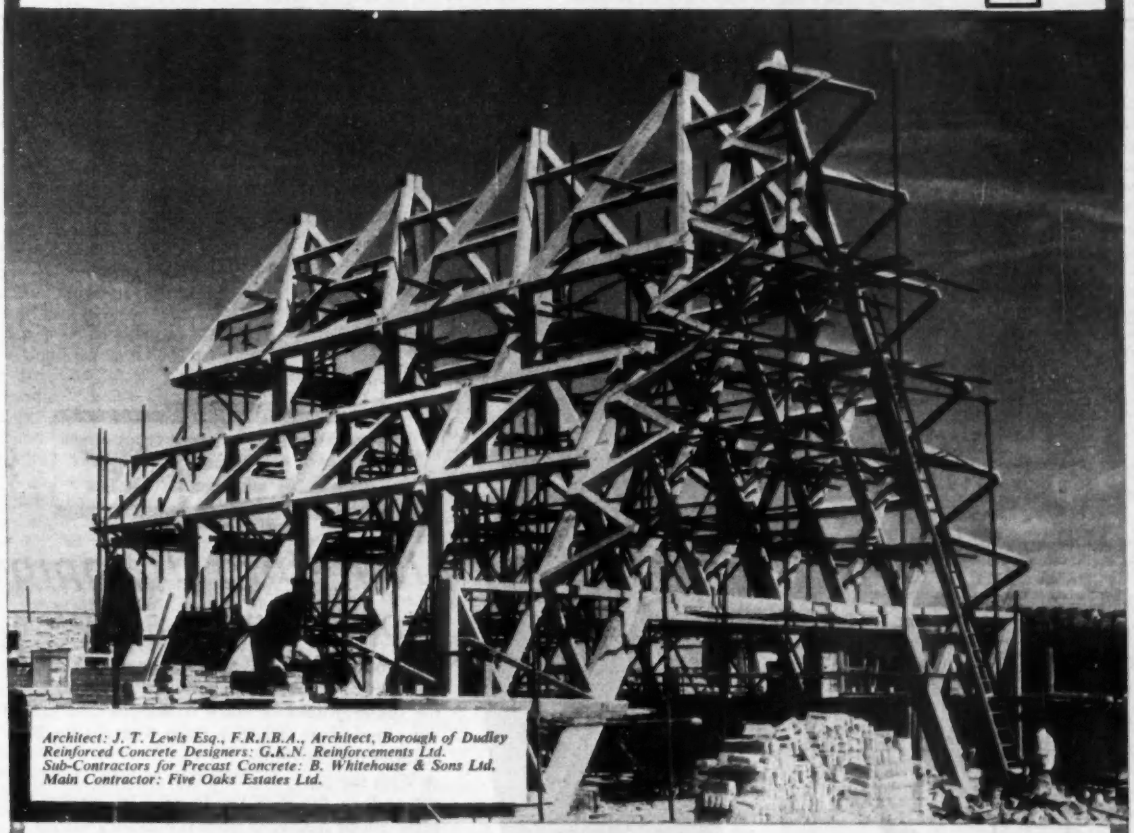
Management Committee: Retiring members re-elected—P. H. Bates, R. S. Williams, F. L. Baker, G. G. Lawrence and L. H. Colls. New London members—E. J. Cook, H. F. Anderson and H. Aldous. Regional representatives—G. Banks (Southern Counties), R. E. Perrott (Eastern Counties), Sir Robert O. Lloyd, OBE (Liverpool), H. W. Wake, MBE (Northern Counties), D. Brown (Yorkshire), J. V. Baker (South Western), C. Turner (South Wales), V. Theo Williams (Midland), and A. Tomlinson (North Western).

The annual dinner will be held at the Dorchester Hotel, W1, on April 5, and the guest of honour will be Lord John Hope, Minister of Works.

Property Owners Catechism

THE PROPERTY Owners' Protection Association Ltd. have published a useful booklet containing essential information on legal problems, maintenance and construction, amenity rights and public service facilities. 'Property Owners' Problems Answered' has been produced in question and answer form with an index for quick reference. Copies may be obtained from the Association at Spencer House, South-place, EC2 (price 4s.).

DESIGNS IN CONCRETE 8



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Book Reviews

A History of Modern Architecture ; Lighting in Architecture ; Playgrounds and Recreation Spaces ; Sculptures of the Parthenon

A HISTORY OF MODERN ARCHITECTURE. By Jürgen Joedicke. (London: The Architectural Press.) Price 45s. net.

THERE was room for a good, well illustrated history of the modern movement in architecture, and Professor Joedicke, who teaches at the Technische Hochschule in Stuttgart, has provided it in this book, which is translated from the German by Mr. James C. Palmes. The author treats the subject under four general headings:—The Age of the Pioneers; Masters of Modern Architecture; Extension and Development; and the Contribution of the Nations, and gives a lucid and straightforward account of developments from Paxton to Candela. Frank Lloyd Wright is relegated, no doubt rightly, to the pioneers, for he refused to conform to any 'school' and remained an individualistic experimenter to the end; but it is not quite clear why only three men—Gropius, Mies van der Rohe and Le Corbusier—should be named as the Masters of Modern Architecture. There are not a few others who, though not perhaps such outstanding personalities, could be allowed to qualify as 'Masters,' and, in fact, though they are not so called, they and their works are duly discussed elsewhere in the book. Professor Joedicke gives a clear account of the part played in the development of modern architecture by new structural materials and techniques and by new spatial concepts, and he draws no distinction between architecture and structural engineering. Thus he is able to do justice to the great structural engineers who helped to widen the bounds of architecture—men such as Hennebique in reinforced concrete; Dutert and Contamin in structural steel with their immense Machinery Hall at the Paris International Exhibition of 1889; Trauer (the Nervi of his period) who collaborated with Max Berg in 1912 in the design of that vast reinforced concrete umbrella-like roof of the Century Hall, Breslau; Freyssinet, Maillart, Nervi, and many others.

Who invented the curtain wall ? Few probably could say. Many, no doubt, remembering the Bauhaus at Dessau, 1925-26, would say Gropius, but they would be wrong. The first instance of the pure curtain wall is found, oddly enough, in the otherwise somewhat Art Nouveauish Hallidie Building, San Francisco, erected in 1918 from the designs of Willie Jefferson Polk, nearly eight years before the Bauhaus. Did Gropius know of this or did he evolve his version independently ? Professor Joedicke does not say.

Perhaps the least satisfactory section of the book is that dealing with 'The Contributions of the Nations,' in which the work of eleven countries—Great Britain, France, Holland, Germany, Switzerland, Sweden, Denmark, Finland, Italy, Brazil, and the USA—is rather summarily reviewed in a total of about seventy pages. The British section is notably superficial. In any account of the modern movement in this country one would expect to find some mention of, say, T. S. Tait, Joseph Emberton, or, to be up-to-date, Sir Hugh Casson, yet these and other important names are missing. Perhaps one should not expect too much from a general history. One small correction to the Notes (p. 238): the train sheds of St. Pancras Station, London (1868), were designed not by Sir G. G. Scott but by W. H. Barlow.

Neither too technical for the layman nor too popular for the specialist, this book should have a wide appeal. It is lavishly illustrated and beautifully produced.

LIGHTING IN ARCHITECTURE. By Walter Köhler and Wassili Luckhardt. (New York: Reinhold Publishing Corporation. London: Chapman and Hall.) Price 120s. net.

ILLUMINATING engineering, like so many other aspects of modern building design, is so complex and technical a matter that the architect faced with unusual problems is generally glad of expert advice. For a grasp of the principles, the practice and the aesthetic possibilities of artificial lighting, he can turn to books such as the one under notice, which has been translated from the German and reprinted in the USA. It is in three parts, (1) a 'pictorial narrative' (a selection of photographs, exterior and interior, of mainly Continental and American buildings, reproduced in monochrome and colour); (2) an illuminating engineer's 'exposition of his field for the benefit of other specialists'; and (3) a description and criticism of some existing installations.

The book shows very effectively the applications and resources of modern artificial lighting. It is significant that in nearly every example illustrated the light source is concealed. Is the time overdue for a revival of the finely-designed independent fitting ? This is an expensive book, but the high cost is no doubt justified by the high quality of the production.

PLAYGROUNDS AND RECREATION SPACES. Introduction by Alfred Ledermann and Alfred Trachsel. Translated by Ernst Priefert. (London: The Architectural Press.) Price 63s. net.

THERE is nothing new about the idea of playgrounds and recreation spaces; the LCC, for example, were providing them in public parks, with equipment such as swings, see-saws, horizontal bars and roundabouts, sixty or seventy years ago. In densely populated areas, of course, there were never enough of them, and large numbers of children had nowhere to play but the streets. What is new about them is the attention given to their design and the great variety of equipment often provided—paddling pools, sandpits, climbing towers, tunnels for crawling through, slides, bollards for leap-frog, mazes, even old disused vehicles to climb on and sit in.

It has to be admitted that much more has been done in some other countries in the planning of playgrounds and recreation spaces, not only for children of all age groups but also for adults, than has been done here. The authors of this book, two of Europe's leading playground designers, after some short introductory essays, illustrate and describe a great variety of examples from many countries, chiefly European and American. They range from small, inexpensive schemes to large ones covering many acres. With the appalling casualties on the roads, involving large numbers of children, much more will have to be done in the provision of such play-spaces. Planners in search of ideas could not do better than turn to this comprehensive and handsomely produced book. It is of German origin, the text being printed in English and German.

THE SCULPTURES OF THE PARTHENON. By P. E. Corbett. (Penguin Books, Harmondsworth, Middlesex.) Price 5s.

IN this small book, after a brief account of the Parthenon from its building in the fifth century, BC, to modern times, with emphasis on some of the more painful incidents of its chequered story, such as the remodelling of the fifth century, AD, the bombardment by the Turks in 1687, which largely wrecked it, and the removal of sculptures and reliefs by Lord Elgin in 1799, the author gives a luminous description of the sculptures of the metopes, the Panathenaic frieze, and the pediments, followed by 40 plates of photographic reproductions. Other illustrations include a plan of the Acropolis and a sectional drawing of the Parthenon showing the positions of the sculptures.

What was the actual share of Pheidias in this work ? The author holds that, although on any view he could have done little or none of the actual carving, so great is the quantity of sculpture, so short the period in which it was completed, the frieze and the pediments at least reveal 'the characteristic manifestations of a single powerful and original mind; for the metopes the indications are less clear, and one must suppose that if the same man did in fact play a part in their creation his influence was more restricted.'

This is a scholarly little monograph that should appeal to all students of Classic art.

G. J. HOWLING.

***Books noted in these columns may be obtained on application to the Book Dept., 'The Builder,' 4 Catherine-street, Aldwych, WC2. Cash (to include 9d. postage on books to the value of 10s.; over 10s., 1s. 6d.) should accompany the order.*

Housing the Old: a Reconnaissance

The Main Points to Consider and Some Interesting Practical Examples

By S. K. Ruck, lately Senior Simon Research Fellow, Manchester University

1. The Need

PROVIDING ACCOMMODATION for the old is or should be one of the chief preoccupations of housing authorities today, for three main reasons. First, there are more old people than there have ever been, and it is the oldest who are increasing fastest in numbers. Thus between 1951 and 1958, those of 65 and over increased by 10.4 per cent, 75 and over by 22.3 per cent and those 80 and over by 34 per cent. By 1970 there will be over a million octogenarians in the country—ten times as many as a century ago.

Second, old people occupy a high proportion of available accommodation in the country. The 1951 census showed that of private households of one or two persons with the head of the household over the age of 60, 62.5 per cent comprised four rooms or more. If smaller suitable units of accommodation were available, and if the old people could be persuaded to move into them, the country's whole housing problem would be virtually solved overnight.

Third, the anticipation that the National Assistance Act, 1948, would meet the accommodation needs of the aged, and that this was a welfare rather than a housing problem, have not been fulfilled. Not only are there waiting lists nearly everywhere for Part III Homes, but many of those in them, or awaiting admission, would prefer to be in homes of their own.

Some housing authorities are doing little or nothing about the situation. The following have as yet provided no old people's bungalows:

8 County Boroughs
20 Metropolitan Boroughs
57 non-County Boroughs
106 Urban District Councils
95 Rural District Councils

In addition, 13 non-county boroughs, 56 UDCs and 70 RDCs have, as yet, provided neither old people's bungalows nor one-roomed flats.*

On the other hand, a large number of local authorities and many voluntary organisations are doing a great deal, and the proportion of newly-built one-bedroom dwellings is steadily rising. The most striking, though not surprising, feature of these activities is their wide variety. It is not surprising, because there are a number of considerations to be taken into account in housing old people, and the relative importance attached to them can lead to a great diversity of provision. In this article an attempt is made to enumerate the most important of these considerations, and to give examples of the provision made by various local authorities and voluntary organisations as a result of the weight attached to one or more of them.

2. Assistance and Supervision

That the elderly section of the population have special housing needs arises from two distinct factors which often get confused. The first is that housing needs depend on size of household, and in the normal family cycle the size of household where the parents have reached the ages of 45-60 has generally been reduced to two. Any marked decline in physical powers, which is the second factor involved, does not normally occur till perhaps 20 years later. It is then that a special type of housing becomes desirable, in addition to a smaller amount of accommodation.

The bulk of the special accommodation for the aged, in the form of old people's bungalows, has thus fallen between two stools, since it has gone to the able-bodied of pensionable age. Those under that age (and there are six million people in the country aged 50-59) have often not been eligible, and only from the point of view of size and layout has it been specially adapted to the needs of the very old.

Because certain groups were left largely unprovided for, especially in the earlier years after the war, that is not to say that what has been provided has not met an urgent need. Most people of pensionable age require appropriate house room only; their social needs are taken care of by relatives and friends with the aid of the domiciliary welfare services.

There are, however, those who are out of reach of their relatives, and those who have none. The number of the former has been artificially swollen by modern housing policy, as has been vividly shown by Peter Townsend,* and one suggestion which has been made for counteracting this tendency is the provision of 'grannie plus' flats.

No large authority has as yet built these as part of a peripheral housing estate, but three smaller authorities, Welwyn Garden City, Aylesbury and Walsall have experimented with them. Those in Walsall have only just been opened and their value is not yet established, but the experiences of Aylesbury and Welwyn have been illuminating. Aylesbury built one such flat, but found it impossible to let for the purpose intended: it is now in fact inhabited by a married couple with an aged parent, but the married couple sleep in the grannie plus flat because the husband has a heart affliction, and the aged parent sleeps upstairs.

The failure was attributed to the fact that the grannie plus flat inevitably cost more than an additional bedroom and the higher rent deters potential applicants. It may also be that those who are prepared to have in-laws under their roof are ready to improvise arrangements in existing dwellings if there is room, and those who do not regard a grannie plus flat as a little too close. In Welwyn, which provided six such dwellings, the difficulty arose when grannie died. Who was then to live in grannie's bed sitter? At the present time only one of the six dwellings has the family grannie in residence.

Old people who are without nearby relatives, as with the years they become increasingly handicapped by the infirmities of age, increasingly feel a sense of loneliness and of insecurity, in the know-

* IMTA Housing Statistics, 1957-58. Not all authorities made returns, and the figures given are therefore minima.

* The Family Life of Old People. Peter Townsend, 1957.

The Sutton Dwellings Trust's Miles Mitchell Village, Crownhill, Plymouth: view from Cratton Place looking north. The ornamental railings are a feature of the village. Louis de Soissons, Peacock, Hodges, Robertson and Fraser, architects

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* plus 2/- to 6/- a week maintenance cost.

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ledge that they are prone to falls and heart failure.

For these, and once again it is to be remembered that there are now nearly a million over-eighties in the country, something more than the right size of house is required, and their needs are being increasingly met throughout the country by the provision of grouped dwellings with welfare services.

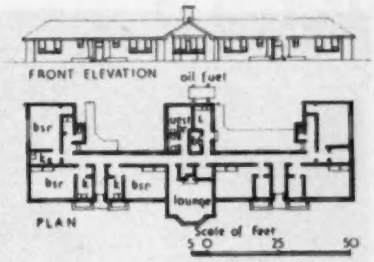
This provision, though it reproduces many features of the old almshouses, is new as a local government activity since the war. The pioneers appear to be Sturminster in Dorset, who opened their prototype in 1948. At that time a Government grant was available only in respect of completely self-contained dwellings, and county council grants to district councils for the provision of Welfare Services could only be given with the consent of the Minister.

Cuckfield District Council subsequently built a scheme with shared bathrooms and lavatories, forgoing the grant, and as a result of the success of this experiment, the 'self-contained' requirement was modified, Thingoe RDC, Norfolk, and Spilsby, Lincs., being the first authorities to attract grants for a scheme with shared facilities. Thingoe's reasons for this provision are interesting—'The conviction that it should provide something beyond the normal local housing authority dwelling for the housing of the elderly arose from the reports which the Council received from its health officers at the commencement of the slum clearance survey under the Housing Repairs and Rents Act, 1954, which showed that the majority of unfit cottages were occupied by old people living alone, and the annual reports of the Medical Officer of Health also showed that the proportion of elderly people in the rural district was increasing year by year.'

In 1957 the Ministry issued a circular (18/57) authorising county councils to make grants for welfare provision without ministerial consent, and this coupled with the fact that in that year government grants were withdrawn for all except one-bedroom dwellings, gave a great stimulus to this type of provision. Many authorities, in order to obtain the maximum government grant, tied in such provision with slum clearance.

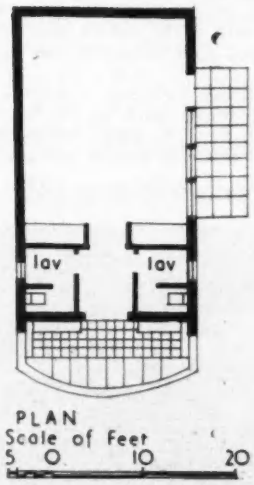
As a result, by the end of 1958 there were 134 group schemes with 2,938 dwellings in operation in England and Wales, and a further 64 schemes with 1,376 dwellings under active consideration. Their distribution is however patchy. Very few district councils have made this provision spontaneously; most have been encouraged to so by the promise of a county grant, and while some counties, like Lancashire, West Riding, Hampshire and Somerset, have canvassed all their local housing authorities, others have done little or nothing or have refused a grant. Eighteen counties in England and nine in Wales had up to 1959 made no grant.

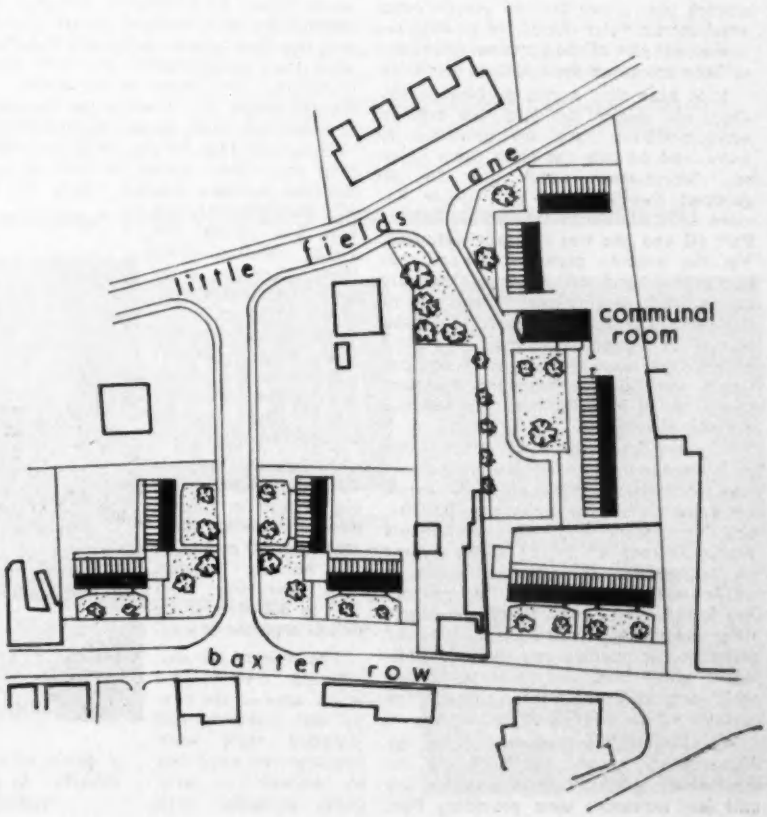
The grant is normally between £20 and £30 a year a dwelling (the maximum is £30) and is thus a substantial inducement. It is perhaps because such an inducement does not exist in the county boroughs, that although the need is as great or greater, only a third of them have schemes of this kind, most of them less comprehensive than those in the counties.



Grouped old persons' dwellings for Spilsby RDC. G. F. Taylor, MIMunE, engineer, surveyor and housing manager

The county schemes usually comprise about 20 dwellings (see example E. Dereham Scheme). Ilford has a scheme with 84 dwellings (for which incidentally there is a waiting list of 300), primarily intended for the disabled but 80 per cent are aged, and the five 2-storey blocks are all equipped with slow moving lifts. Spilsby, Lincs., on the other hand has two (and is to build four or five more), with six dwellings, regarded as the appropriate size for a small village, and receives a county grant in respect of it, but there are other counties which refuse grant aids to schemes as small as this. Some counties also refuse to pay a grant save in respect of residents who might other-





Right: Layout plan of the Baxter Row redevelopment scheme for housing old people for East Dereham Urban District Council, Norfolk, and (above) sketch design of proposed communal room. The scheme provides dwellings for 26 old people and a warden, some in bungalows and some in flats, with general purpose maisonettes above (see example of 'integration'). Harold March, LRIBA, architect

Part of a housing scheme for old people at Copenhagen, Denmark

wise occupy Part III accommodation.

Most schemes have bell communication systems, a communal room with a kitchen, guest rooms (charged at 4s. or 5s. the first night and 1s. 6d. or 2s. 6d. after), and laundry facilities. There is nearly always a warden in charge, generally a married woman, with a husband at work (or occasionally an invalid), who is paid in the region of 30s. a week plus a free flat and certain other emoluments. Her duties are to keep the communal part of the premises clean, and to keep an eye on the residents generally.

It is here that a real problem arises. Once old people get into this type of accommodation they are unwilling to leave, and no one can force them to do so. Sturminster, which now has 60 grouped dwellings for old people has since 1948 admitted only one old lady to Part III and she was mentally deranged. Yet the housing manager reckons that between 6 and 10 now resident are chronic sick, and at least 50 per cent of the remainder Part III cases. In Sale, where the grouped dwellings have been open a year, there are already three cases which the housing manager considers should be in Part III, but they will not consider moving.

Whether they want to or not, housing authorities who provide grouped dwellings with welfare services for old people are going to become welfare authorities, and 30s. a week, even with emoluments worth another £3 or £4 seems a low recompense for the sort of burden a warden may have to carry. Sturminster has found a way out: those old people who make extra demands for domestic assistance on wardens can claim an additional grant from the assistance board which is paid to the warden through the medium of the housing department.

Whether, with subsidisation from the Ministry, the county, the NAB and the domiciliary services, these schemes are still less expensive than providing Part III homes is now the subject of research at Manchester under the auspices of the National Corporation for the Care of Old People. Probably they are, but even if not there is no doubt in which type of accommodation the greater happiness is found.

3. Segregation or Integration

One important point at issue, especially in large cities, is whether provision for old people should segregate them in separate communities or leave them dispersed among the general population.

The dispersionists argue that if a sufficient number of one- and two-room dwellings are provided on a housing estate the old will take their natural place in the community, mix with and be helped by their neighbours and enjoy the contact with younger folk, especially children. They may go so far as to agree that in blocks of flats the old people should be accommodated on the ground floor.

The segregationists reply that old people have special needs, that these needs cannot be adequately met save by special and concentrated provision and that the dispersionists are really rationalising their unwillingness to make such provision. They point to the desiderata for old people laid down in the Ministry of Housing and Local Government's 'Flatlets for Old People' 1958 and contend that these cannot be met in any ordinary housing scheme. They say it is a sentimental fallacy that old people like young children about them: they may enjoy their own grandchildren's company for up to an hour or so, but find other people's children noisy and inconsiderate, especially when they live in ground floor flats.

A notable example of segregation of the old is seen in Copenhagen. Here there are 7,000 old people on 12 housing estates, each containing from 250 to 800 flats in up to ten separate blocks.

The estates are distributed over the whole area of the city, so that residents can maintain their local contacts and each has its 'festsaal' or party suite, complete with kitchen (let free to residents for celebration parties) central kitchens from which cheap meals can be bought and a trained nurse as superintendent, and all are under the control of the City Welfare Department. An interesting point is that whereas the first estate contains 295 single and 238 for married couples, the last has 487 for the single and 46 for the married.

Oslo has made similar provision for 2,000 old people. Here one block of 80 flats has shops on the ground floor and a married couple in charge. A 15-storey block of 110 flats has another 2-storey block with 70 flats adjoining it for those old people who do not like lifts.

Nothing of this kind has been attempted by any local authority in this country, where all appear to adhere to the idea of dispersion. Two charitable trusts have, however, pioneered in this field. Whitely Village, built from a £1m. legacy by the 'universal provider,' is an extreme example of segregation. The village of 225 acres is two miles from the nearest community and apart from staff consists entirely of 360 old people. The great bulk live in their own cottage or bungalow of one room with a bed recess, but there is also a rest home and a hospital for those of growing infirmity. The village has its own churches, shop, post office, club room, entertainment hall and visitors' rooms.

Whitely Village was opened soon after the first war, and a somewhat similar scheme, Miles Mitchell Village, has recently been completed by the Sutton Dwellings Trust on the outskirts of Plymouth. Here, however, there is no rest home and no hospital: these had originally been contemplated, but the difficulties inherent in the welfare legislation of the 'forties made their provision impracticable.

The Sutton Dwellings Trust has also built a 7-storey block of 161 one-room flatlets in South London. While this is primarily intended not for the aged but

A pleasant corner at Miles Mitchell Village, Plymouth. In the grassed areas are beds of massed hydrangeas (Sutton Dwellings Trust)

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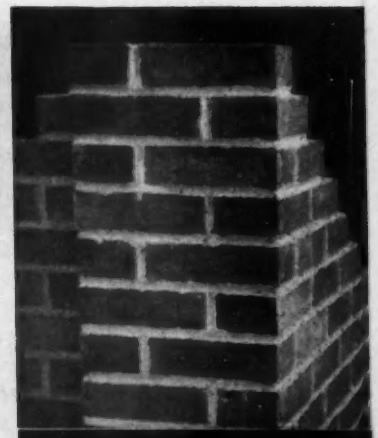

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Flats in the Miles Mitchell Village, Plymouth (Sutton Dwellings Trust)

for 'working women, more particularly those getting on in years whose daily occupation allows them little time for housework,' it is likely that it will in time provide housing for old people, which it is well adapted to do. Among the facilities provided are a hairdressing salon, a self-service restaurant and coffee lounge, while the staff annexe contains nine single bedrooms for visiting friends and relations of residents.

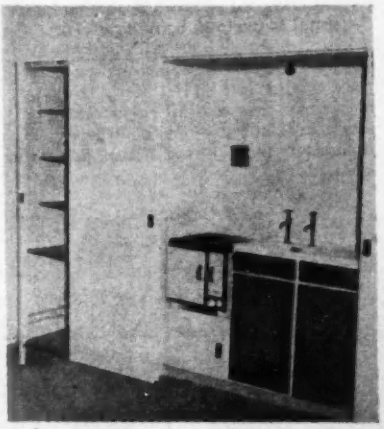
Those providing these 'segregated' establishments are wholly convinced that they are giving the old people what they want. It is not easy for a casual visitor to determine how far this claim is justified, but they all have waiting lists; those who come stay, and those spoken to express complete contentment, and this applies as much to Whitely Village, the most segregated of all, as to the others.

Modified forms of segregation have been tried in one or two schemes. Thus in Miles Mitchell Village, while 161 of the 189 dwellings are for old people, 28 are for middle aged, and the secretary of the very live village club lives in one of these. Welwyn Garden City has built a block of one-bedroom flats of which the ground floor is occupied by the aged, but the upper floors by single workers of both sexes. (See also East Dereham.)

It seems fairly certain that in the large cities, if special accommodation for old people is to be provided at all, it will have to be provided by means of special blocks of flats, and this means total or modified segregation. In smaller centres of population, grouping is still essential if the requisite services are to be provided but the groups can be smaller, in the region of 20 dwellings together, and at this size can still form an integral part of a community.

4. Size and Planning

Most housing provision for the old is in the form of bed-sitting room and one-bedroom flats and bungalows, because this is now the only type of housing to attract Government grant apart from slum clearance. Some authorities have built and are still building 2-bedroom bungalows for the old which now has to be done without subsidy. Experience has shown that spare bedrooms in the 2-room bungalows are rarely used, and



One of the kitchen units built into the bedsitting rooms, which can be shut off by the sliding doors when not in use, evolved by Thingoe RDC

provision for the occasional visitor is better made by way of the communal guest rooms which should be part of any group housing scheme for old people. But there are occasions, e.g. where an aged brother and sister or an old man with an elderly daughter are living together, where two bedrooms are necessary, and provision made should allow for this, perhaps in one dwelling in ten.

Bed sitting rooms are the normal provision for single persons, one-bedroom dwellings for married couples, but women live longer than men, and this complicates the problem of establishing a ratio between the two types. As mentioned above, Copenhagen started off by making roughly equal provision, and has finished by building a far higher proportion of bed sitting rooms, the overall ratio there now being 4 to 1, which is probably as good a guide as is available. Some authorities, e.g. Edinburgh and Spilsby, have met this problem by providing large bed sitting rooms for married couples, in which the surviving spouse can stay on when the partner dies.

Most dwellings have a separate kitchen, larder, fuel storage under cover and a combined WC and bathroom, but Thingoe RDC have evolved a particularly ingenious and compact bed sitting room type, where the whole of one side of the room is occupied by sliding doors, behind which are a pantry (on the outside wall), a broom cupboard, a sink and stove (with a baffle over to carry off smells) a wardrobe and a chest of drawers.

Warmth is an important ingredient in the well being of old people, and heating is usually provided by open fires with back boilers for hot water.

Where there is a curtain and not a wall between bedroom and sitting room, residents can enjoy an even temperature on going to bed and this is generally much appreciated. On the other hand, some old people snore and prefer to sleep one in the bedroom and one on a divan in the sitting room with a wall between. Central heating solves the temperature problem, and eliminates work and fire risks, but where there is a communal sitting room an open fire is always popular.

A small but important point, since old people are very susceptible to a change of temperature, is the heating of WCs and bathrooms. In adapted dwellings with no central heating this can be effected by fitting an infra-red bulb which gives both heat and light for a consumption of as little as one unit in four hours.

Most of the other desirable features of old people's dwellings are mentioned in the Ministry of Housing's various manuals, but some are not—e.g. the importance of non-slip flooring (cork tiling seems most successful), gas slot meters that will not renew a supply of gas if a tap is left turned on or lever taps for arthritic fingers.

Detail of the sun-porches of older people's homes at North Whitecrook, for the Clydebank Town Council

Most old people like to grow their own flowers, but a narrow strip under the window is all the majority can manage. All upper flats should have small balconies and facilities for window boxes, and a particularly attractive feature commended by the Scottish Housing Advisory Committee* and to be found in old people's bungalows in Edinburgh, is a glassed-in sun porch, where old people can enjoy the sun and raise pot flowers.

Showers, recommended by the Scottish Housing Advisory Committee, are not popular with the present generation of old people in this country. Neither are Sitz baths, which moreover are awkward of entry unless sunk into the floor, which is expensive. The best answer is still the conventional bath, but a rather short and low model, with a low overflow outlet to reduce the possibility of accidents.

5. New Buildings or Old?

Most of what has been said in the preceeding paragraphs relates to purpose built dwellings for old people. This is in fact the most expensive form of provision. It is frequently more expensive than it need be. Examples are to be found where one-bedroom flats have hand basins in the bedroom. Not infrequently these are unused and converted into bedside tables. Plumbing is always expensive and any ordinary person who has hot and cold water in a sink in an adjoining room is perfectly content to wash in a basin in the sink or a hand basin provided in the bathroom.

* Housing of Special Groups, HSMO, 1952 (out of print).

Again, the Ministry originally stipulated that to qualify for a grant every dwelling must be self-contained with its own bath and WC.

That requirement has been modified, and baths and WCs may both be shared. It is generally agreed that the sharing of bathrooms is satisfactory and may actually be safer for old people. The sharing of WCs has less support—old people are prone to incontinence, and it is better that each should have his own.

There are many cheaper ways of providing for old people than new building. Foremost among them is the adaptation of large houses into flatlets, the cost per flatlet generally being about half that of a new dwelling. In this the Church Army has pioneered and the WVS and other housing societies have followed suit, while the Bournville Village Trust has recently produced a booklet showing what can be done in this way. Comparatively little adaptation has been done by local authorities, though examples are to be found in various parts of the country and particularly on the South Coast. In one Midlands town which has an adapted house of this kind (overall capital cost £313 per flatlet, flatlets let at an economic rent of 13s. 6d.) the writer was informed that this was regarded as second-class old people's accommodation, the usual bungalows being first-class. On a visit to the flatlets with this housing manager all the residents spoken to said they would rather be there than in a bungalow; they had all they wanted plus a sense of companionship, whereas in a bungalow they would have felt more isolated.

Adaptation schemes have disadvantages. Not only baths, but WCs and even cookers may have to be shared, but the residents generally express complete satisfaction.

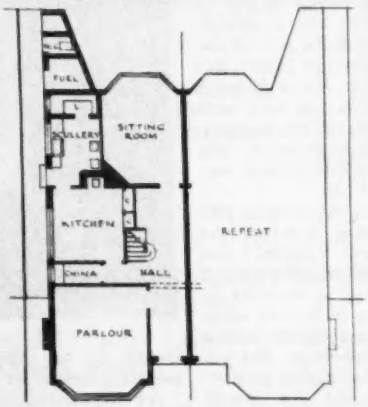
All housing authorities have power to provide and maintain hostels for old people. Only three have them and none has been purpose built. In two (Mansfield and Stalybridge) the resulting establishments are indistinguishable from the Part III accommodation in adapted houses provided by authorities. The boroughs concerned have wished to have old people's homes within their boundaries under their own control rather than that of the county.

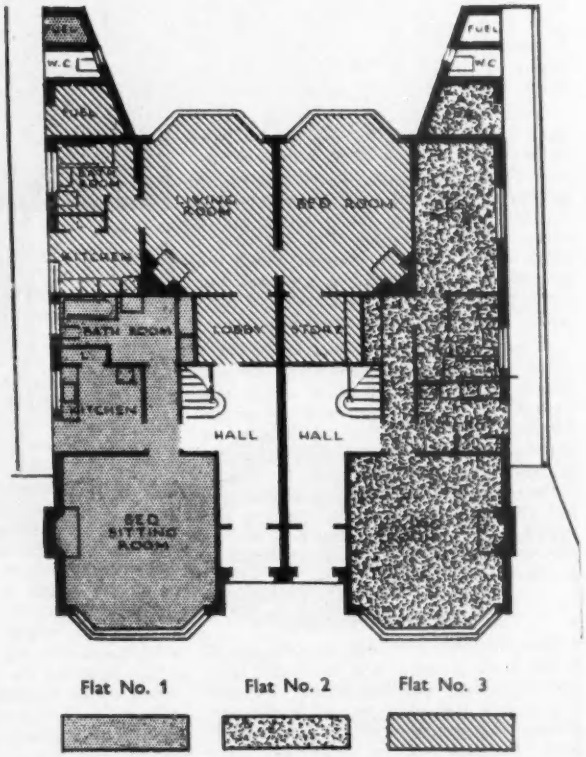
The third, at Hereford, is more interesting. Here the borough council bought up a National Service hostel containing 1,000 double-bunked cubicles, pulled down half for a housing estate and converted the remainder into a hostel with single-room cubicles. It was not intended specifically as old people's accommodation, but 40 of the 360 residents are, in fact, old, and are mostly congregated in one hut under the care of the Superintendent and his wife. Most of them are men, and, paying 56s. 6d., including 15 meals a week, they are well content, and the whole scheme pays its way with a margin of profit.

This accommodation is much preferred and much preferable to that provided for so many old people in the common lodging houses maintained by certain large local authorities, in which the bareness and cheerlessness offered to the independent is in marked contrast to the comfort and even luxury provided for those

A Typical Conversion Scheme

Houses like this are typical of the larger semi-detached family houses of the early-Edwardian period. They are not popular as one-family houses and their conversion into flats gives a useful new life to buildings that are structurally sound. The smaller plan shows the ground floor before conversion and the larger plan (right) after conversion into three self-contained flats. This example is taken from a report by the Bournville Village Trust





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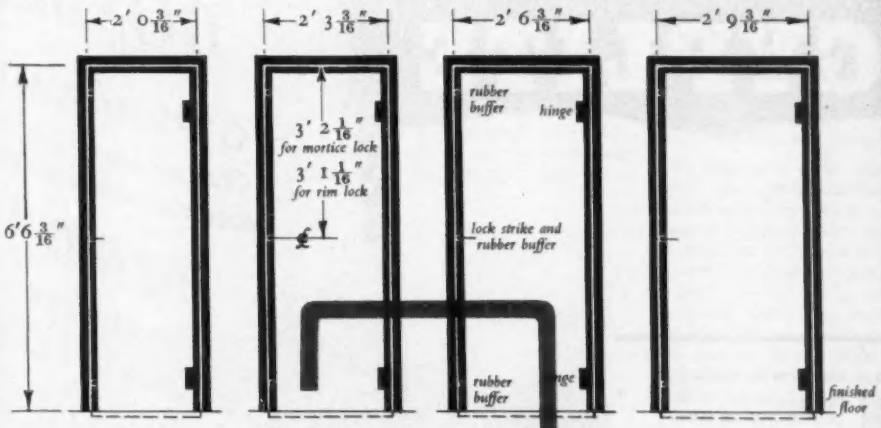

DIP24 DIP27 DIP30 DIP33

SIZES are taken into rebates at head and jambs, and to finished floor level.

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- 1 hot-dip galvanized adjustable lock-strike plate with mortar guard.
- 3 rubber buffers or shock absorbers are inserted in rebate of the lock jamb.

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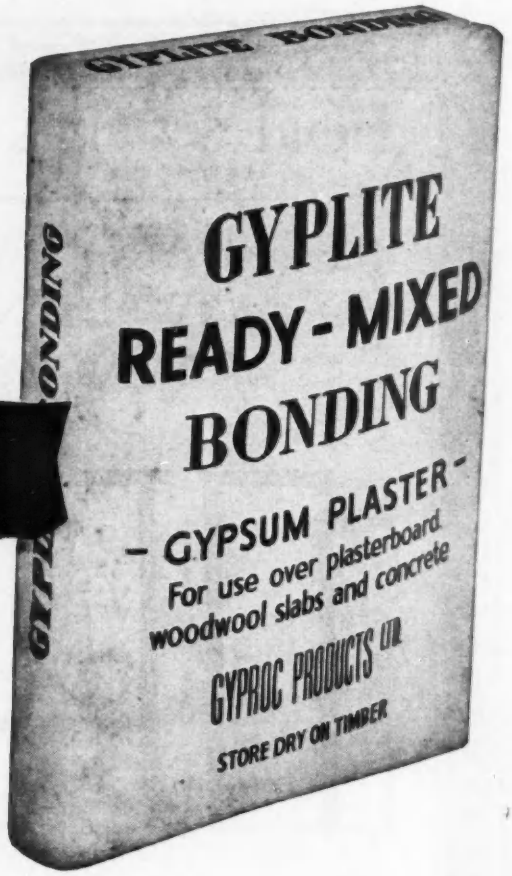

1	GRADE	Gyplite Browning
	AGGREGATE	Perlite
	USES	*As an undercoat over :—* Solid backgrounds other than in situ or precast concrete and stone masonry.
2	GRADE	Gyplite Bonding
	AGGREGATE	Vermiculite
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	AGGREGATE	Perlite and Vermiculite
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GYP. 2

willing to enter the same authorities' Part III accommodation.

Another type of existing dwelling to which some councils have already turned their attention and others might well do so is the almshouse. It is estimated that there are between 40 and 50 thousand almshouse dwellings in the country, most of them still offering substantial accommodation. The National Association of Almshouses has done remarkable work here, having since 1951 instigated improvements to 2,394 units at a cost of £1,190,000, of which £620,000 was provided by statutory grants, £500,000 by the Trustees and £70,000 by grants obtained by the Association. Many councils have co-operated in this work. Some have not, and there still remains considerable scope for their assistance in this field.

There is another method of housing the old which need cost local authorities nothing save time and trouble, and that is by lodging them with the technically overhoused. Voluntary bodies in Plymouth and Exeter have pioneered in this boarding-out of the elderly, but at least three County Councils — Flintshire, Hampshire and West Sussex—have now embarked on similar schemes. So far, no housing authorities appeared to have tried this method of relieving their waiting lists, but there seems no reason why they should not do so. The success of such a scheme, however, depends on a skilled matching of host and guest, careful supervision and a close understanding with the National Assistance Board, and anyone contemplating its initiation would do well to study the account of the Exeter and Plymouth schemes recently published by the National Corporation for the Care of the Old People.

6. Under-Occupation by the Old

Mention has already been made of the high proportion of dwellings of four rooms or more occupied by old people at the 1951 census. Confirmation of the continual existence of this situation is given in a recent survey of the over-eighties in Stockport, where it was found that 77 per cent of those of that age living alone and 94 per cent of those in couples occupied dwellings of that size.

No one knows how far this is by choice, or of necessity. Some old people would certainly move into smaller and more convenient accommodation if they could. Others would undoubtedly wish to stay in their old home, and no one would question their right to do so in unsubsidised accommodation.

Where present day old or elderly residents originally obtained priority subsidised housing on the grounds of their existing family needs the situation is somewhat different. What was their need then is the need of the following generation now. Local authorities are reluctant to use the powers they have to induce over-housed old people to leave their tenancies—e.g., by formal notice to quit, or raising rent to the economic level, but some authorities, and some Housing Trusts also are contemplating this necessity. Short of this, persuasion is used, and at least one authority makes a practice of telling the over-housed tenant they consider he should move, then sending a family on the waiting list along to the dwelling concerned. Actual contact with unhappiness which the sitting tenant could relieve is often found to be the most eloquent sort of persuasion.

It might also help, were the co-operation and understanding of tenants enlisted from the beginning. If each new council resident were informed (1) that he had got his council dwelling because at that time he had a special need; (2) that in future as his family grew up he would no longer have that need; (3) that there would then be others who would; and (4) that he would then be expected to help them and the council by moving to smaller quarters, it is likely he would be willing to co-operate. People pre-warned and pre-conditioned react very differently from those suddenly required to do something against their will.

It is sometimes forgotten, too, that removal can be a deterrently expensive business, especially to old people whose means are slender. Local authorities have power to assist with removals, but many do not use them. Again, it is not merely the removal of furniture which involves cost but the fact that old curtains and carpets do not fit. Here also the local authority can assist with new provisions, making appropriate adjustments in the rent charge, but this again is rarely done.

7. Conclusion

The Scottish Housing Advisory Committee, in the admirable report referred to, stresses (p. 8) the need for national and local housing surveys especially of the needs of special groups, including the old, and gave some illuminating information from a survey of the housing needs of old people which it had itself instigated in Hamilton.

If all authorities would examine the housing situation of the elderly population and take action on their findings in the light of experiments tried and experience gained in this and other countries, the result would be not only a great increase in the comfort and happiness of old people, but also an improvement in the housing situation of the population as a whole.

Old almshouses are a type of dwelling often in need of improvement. The illustration shows Peter Handcock's Almshouses, Bardney, Lincs., before and after modernisation by the National Association of Almshouses. L. D. Tomlinson, FRIBA, architect for conversion

Safety in Industry

The Efficiency of Scaffolding Questioned

A BRAINS TRUST on training for safety in the building and civil engineering industries was held by the London Building and Engineering Contractors Accident Prevention Group during their 69th general meeting. The brains trust were Mr. J. A. Hayward of John Laing & Son Ltd., who was in the chair; a factory inspector (FI), Mr. A. Baker, HMFI (B & CE Section); a senior management executive (SM), Mr. A. E. D. Beaumont of F. E. Beaumont Ltd.; a safety officer (SO), Mr. A. E. Cook of John Laing & Son Ltd.; and a trade union officer (TUO), Mr. E. L. Jones of the National Federation of Building Trades' Operatives.

Question: Has the team any suggestions regarding the training of scaffolders, to ensure all-round proficiency?

TUO.—Do we mean efficiency as scaffolders or in safety? The NJC should give its attention to training and apprenticeship in this trade. Certainly a school of some kind should be established.

SM.—There is certainly a need for proper training in this occupation.

FI.—There is room for much improvement; a large number of accidents can be attributed to faulty erection. I suggest greater recognition of the skill involved; attention to the employment of skilled men; and the training of newcomers on apprenticeship lines.

SO.—18 months to 2 years is the practice in good companies.

TUO.—There should be registration of scaffolders who should be able to produce a registration card as evidence that they are competent.

Prosecutions

Question: Why are there not more prosecutions for breaches of the regulations of which HM Factory Inspectors have been made aware?

FI.—There are not many inspectors available for building operations. Prosecutions take up a lot of time and a balance must be kept.

SM.—Factory inspectors on the whole do very well. It is far better to warn the firm rather than to prosecute unless repeated warnings have been ignored.

TUO.—Legal matters are not always easy to resolve and when a case is brought it is important that it is won.

SO.—Safety Officers act on information or warnings and do not need prosecutions.

Question: Where a full-time safety officer is not employed, what would be the brains trust's suggestions for the carrying out of his duties by other members of the firm?

SO.—A safety officer should be appointed by the senior man on the site. The most experienced man should be asked if he will act as safety officer, and if he accepts he should be trained for the job. Safety must be his first job.

SM.—In a small firm the foreman should act as safety officer.

FI.—This is all right provided the foreman has a sincere interest in safety.

TUO.—Unless the top management has an interest in safety, the foreman may have a conflict of interest between production and safety.

Question: So that safety officers can become a reality on sites, why not some clear and easy sign of identity, so that men on site can recognise this rare visitor?

FI.—In small firms (the majority in the industry) the safety officer is well-known, if he is active in his work.

TUO.—It is surprising how few men know who is the safety officer.

Question: Does the panel consider covering a hole in a floor with a shuttering pan good or bad practice?

SO.—It can trip up a man; and it is likely to be removed for use.

The panel agreed.

Safety Officers

Question: What action should be taken to see that all sub-contracting firms comply with regulation 98 of the Building (Safety, Health & Welfare) Regulations, 1948, i.e. appointment of a safety officer?

SM.—The responsibility is the main contractor's; his safety officer must keep his eye on all sub-contractors.

SO.—Some firms include in their contract an undertaking that this be complied with.

FI.—The sub-contractor must comply with the Regulations and employ a safety officer.

TUO.—The main contractor should see that sub-contractors comply with WRA and the Building Regulations.

Question: How can Regulation 67 (i) be complied with from a practical point of view, i.e. hoist only able to be operated from one position at any one time?

FI.—Shrouding of the operating rope by adjustable tubulars can prevent unauthorised people operating the hoist.

SM.—The operator should operate from the hoist lever at the bottom.

SO.—The control platform should be some distance from the hoist tower. This gives a better view, and keeps the rope away from others.

Question: Who should inspect cranes for the purpose of recording the weekly inspection?

FI.—The driver, if he is sufficiently competent.

SM.—Agreed. He keeps the machine in order.

TUO.—If a black gang is available, their foreman should do it. The driver is not always competent enough.

Question: A client requires white-painted trestles. How can these be used and still comply with Regulations and how should timber be treated?

The brains trust agreed that if paint is likely to cover defects this requirement should not be agreed to. Various preservatives are available for treatment of timber which do not hide defects.

Question: A sub-contractor's employee has an accident requiring notice to be sent to HMIF on form 43B, whilst working on the extension to premises occupied by a tenant. Who is responsible for the notification, the sub-contractor, the main contractor, the factory occupier or the factory owner?

FI.—The injured man's employer should notify the district inspector and the factory occupier, who should also report to the district inspector.

Question: Regulation 29(4) fixing of ladders. What type or types of fixing would satisfy the inspectorate with regard to maintenance work, i.e., a painter painting a 1st-floor sash from a ladder, say, 12 ft. in length.

Suggestions put forward were that guys could be used; a bag of sand at the bottom was useful; or a screw-eye, if the frame or sash was of timber.

Question: Regulation 22(a) states, every working platform from which a person is liable to fall more than 6 ft. 6 in. shall be closely boarded, planked or plated. What gaps between boards would the panel consider permissible for a platform to be within the requirements of the Regulations?

FI.—The object is to ensure that tools, etc., cannot be dropped between cracks. The gap should certainly not be greater than 1 in.

Question: Regulation 74(b) scotching of barrows. Where access to hoist platforms is gained from each of three sides, can an efficient means of scotching be suggested, as battens nailed to the platform create a hazard when barrow wheels are bumped over them?

The panel recommended that there should be stops for the legs.

Question: Painters are requested to board a van laden with plant and materials being sent from the job they have finished to a new site. Should they do so?

Not unless the van has been properly adapted.

Question: What part can the safety officers play in the rehabilitation of injured employees?

TUO.—Affiliate to the Manor House Hospital who are experts on this matter.

FI.—The safety officer can play a most helpful role, provided he is sufficiently interested and has the backing of the management.

Supersulphate Cement

The Building Research Station Digest Number 130, issued recently and available from HM Stationery Office, price 4d., deals with the properties and uses of supersulphate cement. One of the most important properties of this material is its resistance to chemical attack. The Digest also contains recommendations to prevent the cracking of asbestos-cement sheets.

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THE BUILDER LONDON MEASURED RATES

These prices for new building work in London normally appear in the first issue of each month only. The prices are inclusive of all allowances for National Insurance, Holidays with Pay and Public Holidays, Third Party Risk, Travelling Allowances and Guaranteed Week. They cover a profit of 10 per cent on the prime cost without any addition for establishment charges.

These rates do not include for Foremen and other preliminary items, such as office, sheds, plant and scaffolding, etc., and these must be added accordingly.

The basic cost of the labour and materials used in arriving at the rates has been derived from the 'Current Prices of Materials' published in *The Builder*.

The data given are copyright. While every endeavour is made to ensure accuracy, we do not hold ourselves responsible for any error that may occur.—EDITOR.

EXCAVATOR

All hand labour	*Per yd. cube*				
	Loose earth	*Firm soil*	*Stiff clay*	*Chalk and flints*	*Rock, etc., no blasting*
	s. d.	s. d.	s. d.	s. d.	s. d.
Surface excavation to shallow depths	8 0	10 0	11 6	17 5	45 0
Bulk do. or large trenches, etc., not exceeding 5 ft. deep ...	7 3	9 1	10 6	15 6	41 0
Trenches do. under 4 ft. 6 in. wide and do.	9 9	11 10	13 8	20 2	54 0
Pier holes and similar under 6 ft. square and do.	11 0	13 6	15 9	23 2	60 0
Additional throw for every 5 ft.:					
Bulk excavation...	3 8	3 8	5 3	5 3	6 0
Trench ,, ...	4 10	4 10	6 6	6 6	7 6
Pier ,, ...	5 5	5 5	7 4	7 4	8 4
Return, fill and ram	5 0	5 0	6 6	6 6	8 0
Wheeling surplus n.e. 100 yds. run and depositing	7 0	7 9	7 9	7 9	8 9
Underpinning in trenches ...	13 0	18 0	21 0	30 0	—

		s. d.
Loading lorries and transporting to tip	Yd. cube	16 3
Basketing out and depositing	,,	9 9
Planking and strutting to sides of surface or basement trenches :		
Depth up to 5 ft.	Ft. sup.	6
,, ,, 10 ft.	,,	8
,, ,, 15 ft.	,,	9
Hardcore :		
Filled-in layers and consolidated	Yd. cube	22 0
Do. 4 in. thick	Yd. sup.	3 3
Do. 6 in. thick	,,	4 4

CONCRETER

	Basic yard cube rates			
	1 : 12	1 : 3 : 6	1 : 2 : 4	1 : 1½ : 3
Aggregate	1½ in. all-in	1½ in.	¾ in.	½ in.
Concrete in normal foundations : (minimum 6-ton cement loads)—	s. d.	s. d.	s. d.	s. d.
Portland cement standard specification	65 11	73 9	80 9	84 9
Portland cement rapid hardening...	67 2	75 7	83 3	88 1
Water-repellent cement	69 11	79 6	89 0	95 3

		s. d.
Add to above basis for :		
4 in. surface beds	Yd. sup.	7
6 in. ,, ,, ...	,,	8
(If above two items worked around mesh reinforcement, add 5d. per yd. *super*).		
Foundations in underpinning in short lengths ...	Yd. cube	16 0
Beds and flaunchings to drains	,,	8 0
Pier or stanchion foundations—small	,,	4 0
Sundry small items not exceeding 3 ft. cube in plinths, curbs, padstones, etc.	,,	21 0

REINFORCED CONCRETE

ADD to above 'Basic Yard Cube Rates'

		s. d.
Reinforced concrete including working around reinforcement between formwork and hoisting to normal levels :		
Foundations and similar	Yd. cube	5 3
Isolated stanchion or pier bases	,,	6 3
Walls not exceeding 6 in. thick	,,	26 3
,, ,, ,, 12 in. ,, ...	,,	18 3
Suspended floors or flat roofs 4½ in. thick	Yd. cube	21 0
,, ,, ,, ,, 6 in. ,, ...	,,	17 0
,, ,, ,, ,, 9 in. ,, ...	,,	14 6
(Beams attached to floors or flats, *add* 6/6 yd. cube)		
Isolated beams or lintels average 72 sectional inches ...	,,	31 6
Do. average 144 sectional inches	,,	23 6
Columns or stanchions average 72 sectional inches	,,	36 9
,, ,, ,, ,, 144 ,, ,,	,,	28 9
Staircases and landings, etc.	,,	55 0
Shell roofs average 3 in. thick, including labour forming curved surface	,,	130 0
Hollow tile floors :		
Hollow clay tiles 4 in. thick with 1 : 2 : 4 concrete ribs at 14 in. centres with filler tiles and 1½ in. fine concrete screed (excluding reinforcement and form work)	Yd. sup.	19 0
All as above but 6 in. thick clay tiles	,,	23 0
,, ,, ,, ,, 9 in. ,, ,, ,, ...	,,	32 0
Sundry Items :		
2 in. concrete (1 : 2 : 4) blinding bed	Yd. sup.	2 8
Spade finish to concrete beds	,,	10
Trowel ,, ,, ...	,,	1 9
Laying to falls and currents	,,	1 0
Hacking concrete by hand	,,	2 7
Hacking concrete by use of proprietary liquids ...	,,	1 6
Damp-proof membrane in three coats with sanded key	,,	4 9
¾ in. Bitumen expansion joints 4 in. deep in floors ...	Yd. run	3 10

	Mild steel rods (round) cut, bent, hooked, wired and fixed complete (Ex. London Stock)			
	¼ in.	⅜ in.	½ in.	⅝ to 1 in.
Reinforcement :	s. d.	s. d.	s. d.	s. d.
Floors & beams laid in only ...	88 2	79 1	73 6	70 1
,, ,, ,, wired into frames	100 0	89 6	85 5	79 11
Walls wired into frames	100 0	89 6	85 5	79 11
Columns wired into frames ...	100 0	89 6	85 5	79 11
Staircases wired into frames ...	102 3	91 9	87 8	82 2

		s. d.
Steel mesh fabric reinforcement :		
Laid in floors including laps and straight cutting and wiring, etc.:		
Weight 3.94 lb. per yd. sup.	Yd. sup.	4 3
,, 4.71 lb. ,, ,, ,, ...	,,	4 6
,, 9.32 lb. ,, ,, ,, ...	,,	8 4
Raking cutting worth 6 in. material cost per ft. run.		
Circular cutting worth 9 in. material cost per ft. run.		
Formwork (Sawn) including strutting, easing and removal and average four times use of timber :		
Soffit of floors and flat roofs	Yd. sup.	16 6
Sloping soffits of stairs	,,	22 6
Barrel-vault soffits of floors and roofs	,,	21 0
Vertical sides of walls	,,	15 9
Battering sides of walls	,,	20 6
Columns	Ft. sup.	2 4
Lintels and beams	,,	2 6
Staircase strings cut to tread and riser	Ft. run	3 6
Edges of concrete floors, etc., up to 12 in. deep per inch in height	,,	2½
Rebates or similar per inch girth up to 6 in. girth ...	,,	2½
Raking cutting	,,	8
Extra cost for wrought shuttering and labour rubbing down to leave fair face on concrete ...	Yd. sup.	2 6
Pre-cast Concrete (1 : 2 : 4) including fair face :		
4½ in. x 6 in. reinforced lintels	Ft. run	2 10
9 in. x 6 in. ,, ,, ...	,,	5 0
9 in. x 9 in. ,, ,, ...	,,	8 3
Steel Formwork :		
Steel shuttering forms with patent expanding floor centres and telescopic props not less than four times use on each job with continuous use ...	Yd. sup.	10 6

Partitions : (Minimum 100 yd. super)	*Yd. super rate*			
	2 in.	*3 in.*	*4 in.*	*6 in.*
	s. d.	s. d.	s. d.	s. d.
Clinker concrete slab partitions in cement mortar	9 5	11 11	13 11	—
Cranham terra cotta slab partitions in cement mortar	12 11	15 11	18 10	—
Moler partition block partitions in cement mortar	17 1	21 11	24 0	—
Thermalite-Ytong partition blocks in cement mortar	—	15 5	19 1	27 3

Cuttings :

Raking cutting and waste = ½ of ft. sup. rate
Circular ,, ,, ,, = ½ of ft. sup. rate
Cutting around openings = ⅙ of ft. sup. rate
Cutting and bonding at angles, intersections and ends all at 6d. ft. run.

BRICKLAYER

	Yd. super rates			
	Plain flettons	*Rough stocks*	*Second stocks*	*Blue wire-cuts*
	s. d.	s. d.	s. d.	s. d.
Brickwork in cement mortar (1 : 3) reduced to one brick thick ...	35 10	49 7	59 2	91 2
Deduct if in 1 : 1 : 6 cement-lime mortar	10	10	10	10
Add if in :				
Filling in openings	5 6	5 6	5 9	7 0
Backing to masonry	2 9	2 9	2 11	3 6
Building overhand	1 9	1 9	1 10	2 1
Raising on existing work	2 9	2 9	2 11	3 6
Circular on plan to quick sweep ...	5 4	5 4	5 7	6 8
Small detached piers, plinths, etc.	8 0	8 0	8 5	10 0
Underpinning	5 4	5 4	5 8	6 8
Brick-on-edge walls	12 3	17 5	20 5	—
Half-brick sleeper walls honeycombed	12 10	17 10	—	—
Half-brick walls	20 0	28 0	32 7	49 10
do. with fair face and pointing both sides as work proceeds	23 0	—	34 9	53 8
One-brick wall with fair face and pointing both sides as work proceeds	40 11	—	64 7	97 1
11 in. cavity brick wall with two half-brick skins with 2 in. cavity and three galvanised iron twisted ties to every yd. sup.	43 6	—	68 8	—

Sundry items :		s. d.
Horizontal double slate damp-proof course ...	Ft. sup.	3 3
Vertical ,, ,, ,, ,, ...	,,	4 0
Hessian-base bitumen damp-proof course	,,	1 6
Levelling and preparing for raising on	,,	1 0
Cutting, toothing and bonding new to old	,,	3 6
Wedging and pinning with slates in underpinning ...	,,	5 0
Rough cutting	,,	6
Cutting and fitting brickwork around steel ...	,,	6
Bed and point frame one side	Ft. run	4
Rough cutting squint or birdsmouth	,,	6
Labour plumbing angles on faced work	,,	2½
Rake out and point to lead flashing	,,	7
,, ,, ,, ,, stepped flashing	,,	10
Cutting groove for skirting and point	,,	1 6
Shallow chases for small pipes and conduit	,,	1 8
Metal reinforcement 24 gauge 2½ in. wide	,,	4½
Faced work : (Flemish bond) :		
Add or deduct for every 10s. per 1,000 difference from basic price of common bricks in Flemish bond in solid work	Yd. sup.	9
do. to half-brick wall in stretcher bond	,,	6½
Add for extra labour to each side in facings and pointing as work proceeds	,,	3 0
do. butt joints raked out and pointed with special mortar	,,	6 0
If built in English bond, add 12½ per cent to above items.		
Labours :		
Fair cutting	Ft. run	1 1
Fair circular cutting	,,	1 3
Fair squint or birdsmouth cutting	,,	1 8

Copings :		*9 in. wall*	*14 in. wall*
		s. d.	s. d.
Brick-on-edge coping in flettons finished fair and pointing as work proceeds ...	Ft. run	2 3	3 0
Add for every increase by 10s. per 1,000 in cost of superior bricks	,,	1	1½
Add for two courses of roofing tiles under and cement weather fillets on both sides	,,	3 6	4 3
Cills :			
Two courses of roofing tiles laid breaking joint, in cement mortar, set weathering and pointing ...	Ft. run	3 6	
Arches :			
Extra over fletton brickwork for brick-on-end flat arch 4½ in. on soffit and 9 in. high in facings p.c. 350s. per 1,000 and pointing	Ft. run	3 6	
Extra over fletton brickwork for fair axed arch in stock facings p.c. 350s. per 1,000 and pointing (cuttings measured separately)	Ft. sup.	9 0	

CURTAIN WALLING

Curtain walling of hollow, extruded, aluminium alloy mullion and transom units fixed together to form a grid to conventional steel and concrete framework, including glazing complete and a reasonably priced infilling panel and subject to the number of vents, etc., required, a fair average price is from 22/- to 27/6 per ft. sup.

PAVIOR

	Yd. super rates			
	½ in.	*¾ in.*	*1 in.*	*1½ in.*
	s. d.	s. d.	s. d.	s. d.
Cement screed (1 : 3) to receive pavings	4 4	5 2	6 0	6 10

Add to above for :		d.
Trowelling smooth	Yd. sup.	7
Narrow widths or small quantities—add 25 per cent. to plain surfaces : Laying to falls	,,	4

	Yd. super rates			
	1 in.	*1¼ in.*	*1½ in.*	*2 in.*
	s. d.	s. d.	s. d.	s. d.
Granolithic paving (1 : 2½) laid on concrete	8 9	9 10	11 11	13 0

Add to above for :		s. d.
Narrow widths or small quantities—add 25 per cent to plain surfaces.		
Surface hardening with three coats of silicate of soda	Yd. sup.	1 5
Carborundum finish with 2 lb. per yd. sup. trowelled in	,,	3 0
¾ in. skirting 5 in. high covered at bottom and fair top edge	Ft. run	2 9
Mitres and ends—7d. each.		
Composition flooring ½ in. thick	Yd. sup.	18 0
Terrazzo paving ⅜ in. thick	,,	45 0
Rubber flooring ¼ in. thick	,,	65 0

ASPHALTER

		Mastic BSS 988	*Natural rock BSS 1162*
Asphalt roofing :		s. d.	s. d.
¾ in. flat to falls in two thicknesses on felt underlay on prepared screed	Yd. sup.	14 3	21 0
do. in small quantities or narrow widths	Ft. sup.	2 3	2 6
6 in. high skirting with angle fillet and splayed edge at top	Ft. run	2 6	3 1
External angles on do.	No.	7	7
Internal angles on do.	,,	7	7
		Mastic BSS 1097	*Natural rock BSS 1418*
Asphalt Damp-proof Course and Tanking:		s. d.	s. d.
Vertical damp-proof course in 2 thicknesses	Yd. sup.	22 0	28 0
do. in narrow widths	Ft. sup.	3 0	3 7
¾ in. Horizontal damp-proof course in two thicknesses	Yd. sup.	14 10	18 3
do. in narrow widths ...	Ft. sup.	2 3	2 6
Vertical tanking in three thicknesses ...	Yd. sup.	31 3	36 9
1½ in. Horizontal do. in three thicknesses	,,	25 0	29 2
Labour double angle fillet	Ft. run	1 8	1 8

DRAINLAYER

	Per yd. run Depth of trench				
	2 ft.	3 ft.	4 ft.	5 ft.	10 ft.
	s. d.	s. d.	s. d.	s. d.	s. d.
Excavate trench, part return fill and ram and remove surplus, inc. planking and strutting. (In firm soil—if in clay or chalk adjust in accordance with previous excavation rates)	8 0	21 0	28 0	35 0	103 2

	Per yd. run		
	4 in.	6 in.	9 in.
	s. d.	s. d.	s. d.
Concrete (1 : 6–1½ in. agg.) 12 in. wider than external diameter of pipe in 4 in. bed and benching up on both sides	8 0	8 10	11 3
do. but 6 in. bed and do.	9 7	11 3	13 7
do. but 4 in. bed and surround to pipe	11 7	14 5	19 0
do. but 6 in. bed and surround to pipe	15 7	18 10	23 9
	Per ft. run		
Salt glazed drain pipes laid and jointed in trench (Minimum two-ton loads) :	4 in.	6 in.	9 in.
	s. d.	s. d.	s. d.
'Seconds'	2 8	3 9	5 11
'Best'	2 10	4 1	6 1
'Best Tested'	3 6	5 0	8 3
'British Standard'	3 0	4 4	7 0
'British Standard Tested'	3 8	5 4	8 6
Extra for bends 'Best' quality	4 0	5 10	16 10
Extra for junctions 'Best' quality	7 0	9 10	21 3
Cast-iron drain pipes to BSS 437 laid and jointed with molten lead in trench	16 11	24 9	—
Extra for :			
Short lengths	4 0	5 0	—
Bends and extra joints	25 6	68 7	—
Junctions and do.	51 5	117 5	—
Cast-iron gulley trap with 9½ in. x 6½ in. grating and joint	45 0	—	—
Cast-iron rainwater shoe with vertical inlet, inspection door and bedding and joints ...	70 0	—	—
Cast-iron inspection fittings with single branch fitting one side	163 6	—	—

	Per ft. run		
	3 in.	4 in.	6 in.
	s. d.	s. d.	s. d.
Pitch fibre pipes to BS 2760 and laying and jointing in trench (in loads of £60 to £250)...	2 6	3 3	6 2

		4 in.	6 in.
Manhole items :		s. d.	s. d.
Brown glazed stoneware straight half-round channels	Each	5 3	7 6
do. ordinary channel bends	,,	11 9	16 9
Three-quarter section curved channel bends with splayed ends	,,	15 0	21 6
Cast-iron heavy galvanised steps	Each		13 0
Bedding and sealing medium weight manhole covers and frames (cost of cover to add)...	,,		10 0
do. heavy road covers and frames	,,		13 0

MASON

		Per ft. cube		
		Bath	Portland	York
Stone and all labours fixed in:		s. d.	s. d.	s. d.
Ashlar average 6¾ in. on bed	Ft. sup.	31 6	35 9	38 6
Moulded string course 9 in. x 6 in.	Ft. run	27 0	29 8	32 6
Moulded cornice 18 in. x 9 in. ...	,,	68 3	74 3	79 3
Weathered and throated cills:				
9 in. x 3 in.	,,	17 0	19 3	19 9
12 in. x 6 in.	,,	34 0	36 3	38 6
Weathered and throated copings:				
12 in. x 3 in.	,,	18 6	20 0	20 7
14 in. x 6 in.	,,	37 6	41 3	43 6
Plinth rubbed top and face size:				
4½ in. x 9 in.	,,	18 8	21 0	19 3
Plain steps, size 12 in. x 6 in. ...	,,	—	—	34 3
,, ,, ,, 14 in. x 2 in. ...	,,	—	—	16 0
Riser, size 2 in. x 4 in. ...	,,	—	—	7 6
2 in. Sawn paving edges squared in random sizes	Yd. sup.	—	—	93 6
Supplied only:				
Templates and cover stones coped edges	Ft. cube	—	—	29 9

ROOFER

	Yd. sup.
	s. d.
Bituminous built-up roofing in two layers of felt, the first layer 45 lb. and the second 55 lb. to BS747, covered with limestone or granite chippings n.e. ¼ in. thick	10 0
All as above but in three layers, the first and second layers in felt 45 lb.	13 9

	Steel Tees at	
	2 ft. 0½ in. centres	4 ft. 0½ in. centres
2 in compressed straw building slabs in standard sizes fixed complete with 18G steel tees with fixing clips to steel structure to form roof decking :		
	s. d.	s. d.
Areas of 50–100 yds. sup.	27 8	21 4
,, 101–250 ,, ...	26 10	20 9
,, 251–750 ,, ...	26 0	20 3
,, Over 750 ,, ...	25 2	19 4
If 16G steel tees are used—Add to above ...	1 5½	9

Welsh Slating		Per square		
		16in.x8in.	18in.x10in.	20in.x10in.
		s. d.	s. d.	s. d.
Laid with 3 in. lap and 2 zinc nails each slate		380 0	408 0	499 0
Additional labours:				
Top edge cutting ...	Ft. run	9	9	9
Square abutment do.	,,	9	9	9
Double course at eaves...	,,	1 3	1 3	1 3
Raking, cutting and waste	,,	11	11	11
1½ in. x ¾ in. slate battening for last	Per sq.	36 9	33 0	29 3

Roof Tiling		Per square		
		Berkshire hand-made	Stafford machine made	Concrete Tiles
		s. d.	s. d.	s. d.
Roof tiling with 10½ in. x 6½ in. tiles laid to a 4 in. gauge, every fourth course fixed with two galvanised nails		264 0	253 0	163 3
1 in. x ¾ in. tile battening for last... ...		39 6	39 6	39 6
Additional labours:				
Top edge cutting	Ft. run	9	9	9
Square abutments do. ...	,,	9	9	9
Raking cutting to hips ...	,,	11	11	11
Eaves course	,,	11	11	11
Half-round ridge and hip tiles	,,	2 11	2 11	2 11

CARPENTER AND JOINER

	Ft. cube			
	Plates	Joists	Rafters & Partitions	Roof trusses
	s. d.	s. d.	s. d.	s. d.
Softwood carcassing, including all waste, nails, hoisting and fixing	17 0	19 6	22 6	26 6

	Per square		
	¾ in.	1 in.	1¼ in.
	s. d.	s. d.	s. d.
Boarding and Flooring: (Softwood):			
Rough boarding to flats and roof ...	125 0	160 0	194 0
Softwood plain edge flooring cleaned off	155 0	172 0	210 0
Tongued and grooved flooring cleaned off	169 0	194 0	235 0

		s. d.
Extra for 2 in. x 3 in. average firrings	Per sq.	81 0
Herringbone strutting to 2 in. x 8 in. joists	Ft. run	1 10
1 in. gutter boarding and bearers	Ft. sup.	3 8
Raking cutting and waste on 1 in. flooring	Ft. run	9
Composition Boards, etc.:		
⅛ in. hardboard to BS 1142 fixed to vertical battens	Yd. sup.	6 8
½ in. insulation board to BS 1142 do. do.	,,	6 10
1 in. woodwool slabs fixed to flat or sloping soffits	,,	9 6
2 in. compressed straw building slabs in standard sizes fixed to wood bearers to flat or sloping surfaces in quantities of 101 to 250 yds. super	,,	14 8
¼ in. flat asbestos sheeting fixed vertically	,,	10 6

Wood Block Flooring:

1 in. nominal West African mahogany flooring laid herringbone pattern in mastic				,,	34 6
1 in.	do.	Agba		,,	34 6
1 in.	do.	Sapele		,,	36 3
1 in.	do.	Beech		,,	39 0
1 in.	do.	Rhodesian Teak		,,	52 0

Extra for preparing and polishing 2/3 yd. sup.

	Sectional area		
	n.e. 4 in.	4–6 in.	ex. 6 in.
Skirtings:	s. d.	s. d.	s. d.
Softwood skirting with rounded or moulded edge, planted on including all labours in short lengths, mitres, etc., per in. in sectional area	3¾	3¼	2¾

Labours over 6 in.—Mitres=1 ft. run. Return mould ends=1 ft. 6 in. run
Sawn grounds nailed 3½d. ft. run. If plugged+7d. ft. run.

	Ft. super	
	Large sqrs.	Small sqrs.
Sashes and Frames: (Softwood):	s. d.	s. d.
1½ in. rebated, rounded or moulded fixed	3 6	5 8
2 in. ,, ,, ,, ,, ...	3 11	6 0
Add for hanging on butts ... ... each	2 9	2 9
Double-hung sashes and frames with oak cills, purpose-made and not less than 1 doz. in each order:		
Quantities under 1 doz.—add up to ½ according to quantity. (Average size 4 ft. x 5 ft.)	10 6	12 3

Extra cost of boxed mullions 1s. ft. sup.
Extra for hanging sashes with lines, weights and axle pulleys 47s. each.

	Ft. super			
	1¼ in.	1½ in.	1¾ in.	2 in.
Doors: (All-purpose-made) (Softwood)	s. d.	s. d.	s. d.	s. d.
Softwood skeleton framed with hardboard flush both sides (standard internal pattern)	3 6	3 11	4 4	4 9
Framed, ledged and braced	—	5 0	6 1	6 3
Four panel square framed both sides	4 9	5 6	6 6	6 9
Add for each side moulded on last...	6	6	6	6
do. flush framed	1 0	1 1	1 3	1 3
do. bead and butt do.	1 3	1 4	1 6	1 6
do. bolection moulded do.	1 6	1 6	1 6	1 6
do. raised and fielded do.	—	2 3	2 3	2 3

Rebated and beaded meeting stile 4d. ft. run.
Dwarf doors add up to 50 per cent according to size.

	Sectional area		
	n.e. 6in.	6-12 in.	ex. 12in.
Window and Door Linings and Frames:	s. d.	s. d.	s. d.
Softwood linings per inch of sectional area	4½	4	3½
Add for cross-tongueing	—	1	¾
Frames, including rebating and once moulded or equivalent of two run labours, per sectional inch	4	3½	3

Transomes and cills plus 10 per cent on frames.
Additional run labours plus 1½d. per ft. run.

	Per ft. run			
	Sectional area			
	1 in.	2 in.	4 in.	6 in.
Softwood Bearers, Fillets and Mouldings, etc:	s. d.	s. d.	s. d.	s. d.
Wrot grounds, bearers, fillets, etc.	4½	7	11	1 3
Mouldings, picture rails, architraves, etc.	5	7½	11½	1 4
Framed legs and bearers or similar	9	11	1 4	1 10
Glazing beads, mitred and bradded	6	8½	—	—
Add for plugging	6	6	6	6
Add for brass cups and screws ...	2½	2½	2½	2½

	Thickness			
	¾ in.	1 in.	1¼ in.	1½ in.
Shelving (Softwood):	s. d.	s. d.	s. d.	s. d.
Slat shelving 2 in. wide spaced 1 in. between ... ... Ft. sup.	2 0	2 3	2 8	3 0
9 in. shelving ... ... Ft. run	2 0	2 4	2 10	3 5
Shelving over 9 in. wide... Ft. sup.	2 7	2 11	3 6	4 1

1 in. x 2 in. chamfered bearers in short lengths, plugged, each 2s. 3d.

	Ft. super	
	1 in. treads	1¼ in. treads
Staircases (Softwood):	s. d.	s. d.
Treads and risers with moulded nosings, glued, blocked and bracketed on carriages	6 0	6 9
Cross-tongued winders	8 0	9 0

		s. d.
Strings, framed	Ft. run	4 7
Housings for treads and risers	Each	3 0
1 in. x 1 in. sq. balusters framed each end on rake ...	,,	4 0
3½ in. x 3½ in. sq. framed newel	,,	5 0
Mahogany handrail, average 3 in. x 3 in....	Ft. run	8 6
,, ,, ramped	,,	25 0

FIXING ONLY IRONMONGERY

All to Softwood:	Each s. d.		Each s. d.
Barrel bolts	1 9	Rim locks	5 0
Flush bolts	6 0	Mortice locks	10 6
Sash fasteners	3 3	Overhead door springs...	14 0
Casement fasteners ...	2 3	Patent floor springs and oil	35 0
Cupboard locks	5 0		

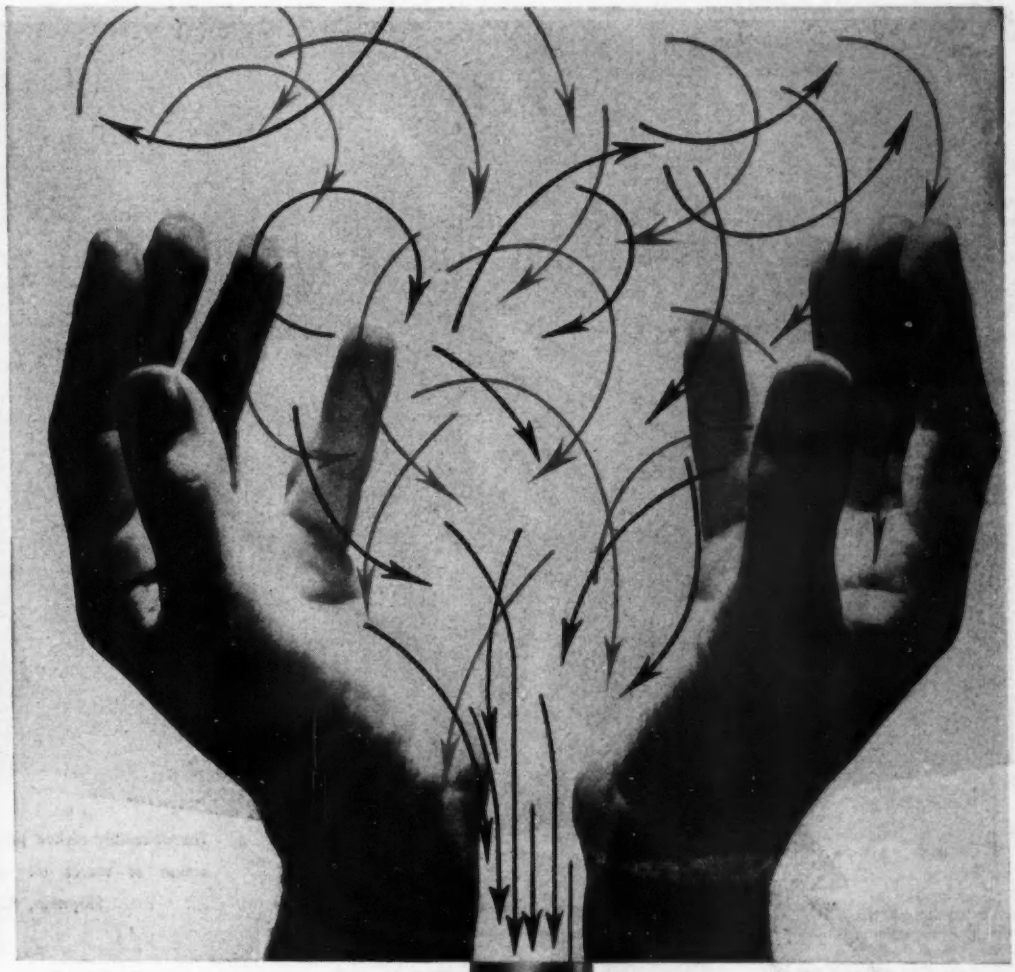
FOUNDER AND SMITH

		s. d.
Fabricated steelwork of basis section including hoisting and fixing at various levels:		
Rolled steel joists	per cwt.	90 0
Compound girders	,,	97 0
Stanchions	,,	102 3
Compound stanchions	,,	108 0
In roof work—trusses and purlins	,,	122 0
(Average prices, not for awkward work)		
Cleats, brackets, packing pieces, etc., in connections, including rivets and bolts	,,	147 6
Wrot iron framed cat ladders	,,	148 0
	to	168 0

PLUMBER

		Per ft. run		
		3 in.	4 in.	5 in.
Cast iron rainwater goods: (Under 5 cwt. lots):		s. d.	s. d.	s. d.
Half-round gutter jointed in red lead and bolted and fixed with iron brackets		3 2	3 9	4 7
Extra for stop ends	each	2 5	3 0	3 11
do. angles or outlets	,,	5 10	6 2	7 3
O.G. gutter of ⅛ in. metal fixed as above		3 8	4 2	4 11
Extra for stop ends	each	2 9	3 4	4 4
do. angles or outlets	,,	6 7	6 9	8 1
		2 in.	3 in.	4 in.
Rainwater pipe jointed in red lead and tow fixed to brickwork with pipe nails and distance pieces: ⅛ in. metal		4 3	4 10	6 3
Extra for shoes	each	5 0	6 10	9 2
do. bends	,,	5 9	8 1	10 4
do. junctions...	,,	7 9	11 0	14 1
Cast iron soil and waste pipes: (Under 5 cwt. lots):		2 in.	3 in.	4 in.
Soil, waste or ventilating pipes with caulked joints fixed to brickwork with pipe nails and distance pieces: 13/64 in. metal		6 1	7 2	9 5
Extra for bends	each	13 6	16 0	20 0
do. junctions	,,	16 9	23 2	29 0
do. oval access door to any fitting	,,	16 6	16 6	21 3
Extra cost for type 'E' holderbat fixing and cutting and pinning to brickwork	ft. run	1 5	1 6	1 6½

WILMOT BREEDEN

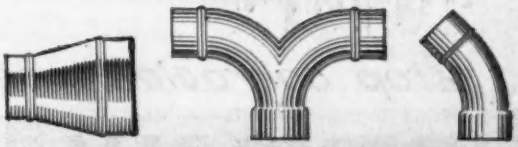


Smooth the way...

. . . with VELFLO — the first mass-produced circular duct fittings to be manufactured in the United Kingdom.

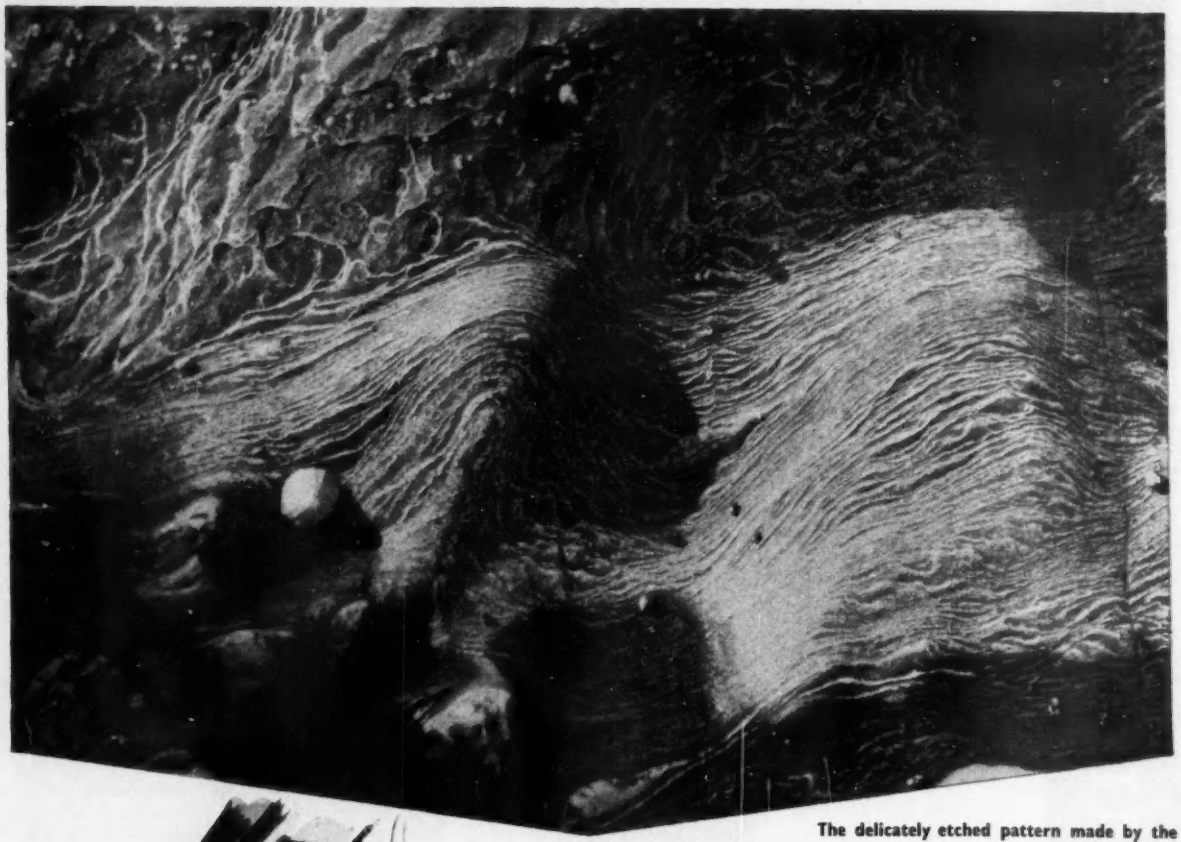
The VELFLO fittings are ideally suited for high velocity air conditioning ductwork. They can also be used with advantage for dust and fume extraction plant, low velocity air conditioning systems and rain and waste water piping installations.

Because VELFLO fittings are all-welded they are airtight throughout; because VELFLO fittings are machine-made and precision-formed the flow path is smooth and unimpaired by any surface defects, flow resistance and noise are reduced to a minimum, and uniformity and economy are assured.

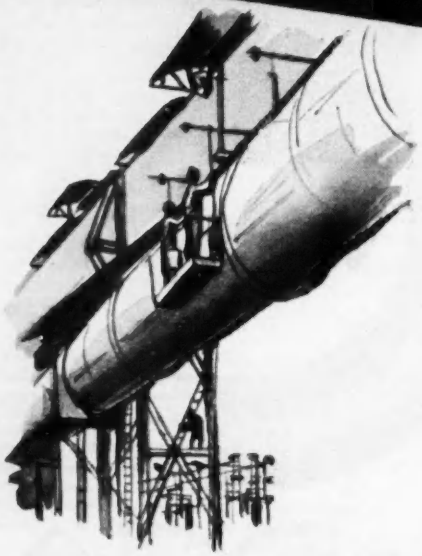


...with VELFLO

WILMOT BREEDEN Ltd., Goodman Street, Birmingham, England *Phone Central 8691*



The delicately etched pattern made by the action of waves on seashore rocks at Skipness, Kintyre, Argyllshire.



This pattern of behaviour...

. . . also serves as a grim reminder of the constant attack by the elements in the vast present-day industrial setting of steel structures. If you are interested in the benefits of less frequent maintenance by modern methods of protection you will find DRYNAMELS Maintenance Paints, including DRYGALV Zinc Rich Paint, are the answer to most corrosion troubles. It you are concerned about corrosion we'll be happy to serve you well and *promptly*.

Stop corrosion positively with

DRYGALV
ZINC RICH PAINT

DRYNAMELS
MAINTENANCE PAINTS

DRYNAMELS LIMITED · HALL GREEN · BIRMINGHAM 28

	Soakers	Flats	Gutters, valleys, etc.	Flashings	Stepped Flashings
External leadwork: (Over 1 ton): Milled lead and labour in per cwt.	s. d. 144 0	s. d. 167 0	s. d. 178 0	s. d. 184 0	s. d. 194 0

Labours, etc.: Double welt	ft. run	1 0
Copper nailing: Open	,,	7
Close	,,	1 0
Soldered seam	,,	6 6

Lead pipes: (Over 1 ton):		2 in. x 10 lb.	3 in. x 15 lb.	4 in. x 19 lb.
		s. d.	s. d.	s. d.
Soil, waste and ventilating pipes, fixed to walls with plain lead tacks and brass screws	per ft.	10 11	14 5	18 10
Extra for: Lengths under 4 ft. ...	,,	3 0	3 6	4 6
Bends	No.	12 0	23 0	24 0
Wiped soldered joints...	,,	19 6	29 0	33 0
,, branch joints	,,	23 9	34 3	38 6

		Per ft. run					
		½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Lead pipes including running joints:		s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Main in trench ...		3 6	5 3	7 9	9 9	12 5	17 3
do. fixed with hooks		4 2	6 1	9 0	11 2	14 0	19 1
Service and do. ...		3 6	5 2	7 1	8 6	10 8	13 10
Waste and do. ...		2 9	4 0	5 8	6 9	8 6	11 2
Extra for lengths under 4 ft. ...		9	1 0	1 6	1 8	1 11	2 6
Soldered stop ends	No.	2 6	3 0	3 8	4 5	5 4	6 6
do. joints to fittings ...	,,	6 6	9 2	10 10	13 2	16 0	19 5
do. branch joints	,,	7 2	10 1	12 0	14 6	17 8	21 4
Brasswork:							
Union with red lead joint to iron and soldered joint to lead	,,	12 0	14 9	18 3	22 2	27 6	40 1
Stop-cock and soldered joints	,,	21 0	30 8	43 7	69 8	89 3	166 5
Bib-cock do.	,,	18 6	24 9	—	—	—	—
Ball-valve do.	,,	18 0	30 4	43 3	71 5	89 3	—
Steel tubing:							
Galvanised tubing Class C laid in trench		2 4	2 6	2 10	4 1	5 6	6 6
do. Class B fixed to walls, etc. ...		2 7	3 0	3 4	4 4	6 1	7 0
Extra for bends	No.	5 0	5 9	7 6	9 9	11 6	17 0
Tees	,,	5 8	6 9	8 1	10 6	12 9	18 6
Red lead joints	,,	3 6	3 9	4 0	4 6	5 0	5 6
Copper tubes and fittings: gauge		19	19	18	18	18	17
Tubes and fixing to walls		2 7	3 4	4 6	5 4	6 3	9 1
Extra for lengths under 4 ft.		7	9	11	1 0	1 3	1 6
Brass capillary type fittings:							
Couplings—copper to copper		3 8	4 4	6 8	8 8	11 0	15 0
Bends— do. ...		5 9	7 0	8 10	11 6	17 0	32 0
Tees— do. ...		8 6	9 10	14 0	19 0	26 0	36 0
Stop cocks		23 6	33 0	60 0	101 0	152 0	250 0
Tank connectors ...		4 8	5 3	8 0	10 0	14 0	18 0

PLASTERER

		s. d.
Expanded metal lathing ⅜ in. mesh 24 gauge ... ... (not including hangers for suspended work)	Yd. sup.	7 8
Lime Plastering: Render, float and set	,,	9 3
Sirapite Plastering: Render and set	,,	7 0
Portland Cement: Plain face trowelled smooth ...	,,	8 3
Keenes: Render in cement and lime and set in Keenes	Yd. sup.	9 9
Extra for dubbing out ½ in. thick 1/11, ¼ in. thick 3/4 ⅜ in. Plasterboard and setting coat in Sirapite ...	,,	8 9

Narrow widths: Up to 3 in. wide add 100 per cent. Do. 6 in. do. 75 per cent. Do. 6 in. to 12 in., add 33⅓ per cent.

Labours: Arris 4½d. Fair edge 6½d. Quirk 9½d.

Plaster Moulded Cornices: 6 in. girth and under ...	Ft. run	3 0
Over 6 in. girth, add 4d. per in.		
Tyrolean Rendering with three coat Cullamix finishing	Yd. sup.	11 6
Wall Tiling: 6 in. x 6 in. white glazed ¼ in. thick ...	,,	45 0
Extra for rounded angle or birdsbeak	Ft. run	4
do. rounded edge tile	,,	5

GLAZIER

	Wood sashes with beads or putty
	s. d.
Clear sheet glass ordinary quality:	
18 oz.	1 4½
24 oz.	1 7
26 oz.	1 9½
32 oz.	2 2
Obscured glass:	
⅛ in. Figured rolled White group 1	1 9
,, ,, ,, group 2	2 0½
,, ,, Standard tints	2 6½
⅛ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and luminating group 3	2 2½
¼ in. Wired Cast	2 6
¼ in. Georgian Wired Cast	2 6½
¼ in. Polished Plate Glass, G.G. Quality:	
In plates not exceeding 2 ft. sup.	6 8½
,, ,, ,, 5 ft. sup.	7 8½
,, ,, ,, 45 ft. sup.	8 10½
,, ,, ,, 100 ft. sup.	9 5½
Extra on all above:	
For glazing with screw beads ft. sup.	5½
(Excepting polished plate over 12 ft. super on which no extra is charged)	
For glazing with metal sashes with putty	1
Glazing bedded in washleather	Ft. run 8½

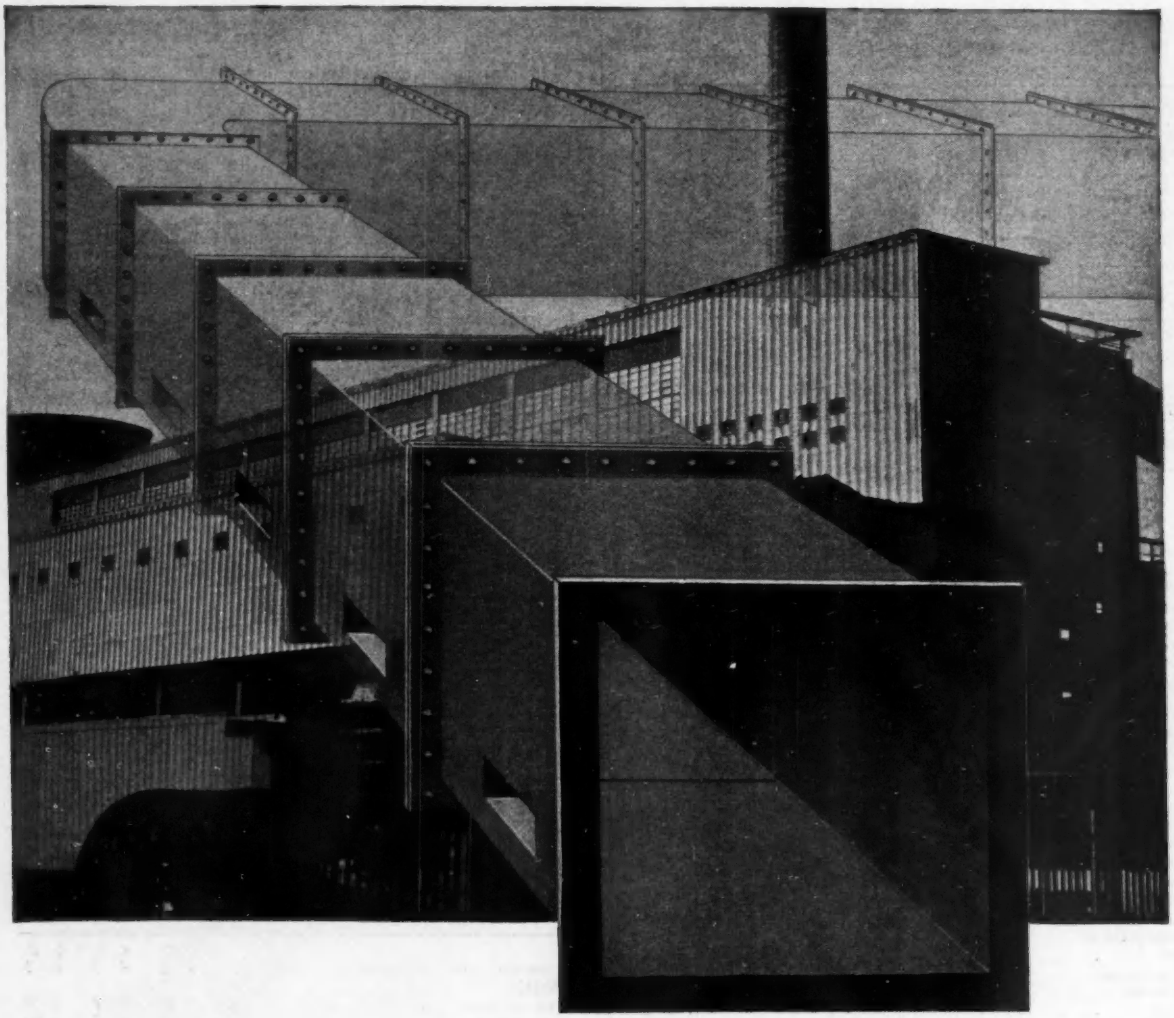
PAINTER

		s. d.
Limewhiting: Prepare and two coats on brick ...	Yd. sup.	1 2
Whitening: Prepare and two coats on plaster ...	,,	1 5
Washable distemper: Prepare and two coats on plaster	,,	1 10
Emulsion paints: Prepare and two coats on plaster ...	,,	3 0

Painting with oil colours:	Yd. super 1 coat	2 coats	3 coats
	s. d.	s. d.	s. d.
Prepare and paint on plaster	2 3	4 3	6 3
On Steel:			
Plain surfaces	1 10	3 7	5 4
Roof trusses	2 4	4 7	6 10
Metal casements divided into squares ...	3 4	6 7	9 10
do. divided into large squares ...	2 7	5 0	7 5
Opening edges ... ... Each	8	1 3	1 10
Small pipe ... ... Yd. run	6	1 0	1 5
Rainwater pipe ... ... ,,	1 0	1 11	2 9
Gutter ... ... ,,	1 4	2 6	3 8

	Knot prime and stop	Add for each extra coat
On Woodwork:	s. d.	s. d.
General surfaces ... ... Yd. sup.	2 10	2 3
On work not exceeding 3 in. girth ... Yd. run	4½	3½
Add to last for every additional 3 in. in girth	3¼	2¾
Sash squares on one side ... ... Doz.	5 6	4 6
Large ,, ,, ,, ... ,,	8 6	8 0
Opening edges ... ... No.	9	8

		s. d.
Oiling Hardwood: Two coats with linseed oil ...	Yd. sup.	1 4
Creosote: Two coats on woodwork	,,	1 7
Polishing—New Work:		
Staining and wax polishing hardwood	Ft. sup.	1 1
Staining, bodying in and full french polishing on hardwood	,,	2 6
Old Work previously polished:		
Preparing old work and repolishing	,,	1 2
Stripping, preparing and repolishing	,,	3 1
Papering:		
Preparing, sizing and hanging lining paper	per piece	10 6
do. do. Wallpaper, p.c. 10s.	,,	19 6



In this factory it was essential that a solution be found to the problem of providing gas-tight, corrosion resistant seals and surface treatments for considerable lengths of metal ductwork.

Expandite RB200, a preformed Flexible Sealer, both waterproof and unaffected by dilute acids has proved to be ideal. Moreover, where airtight joints were required, RB200 grummets were used, thus providing a perfect seal.

On completion of sealing operation, Expandite METAGALV (an anti-rust process applied cold, by brush) was used as primer and, finally, a topcoating of EXPAFLEX added—a chlorinated rubber coating available in many colours, resistant to corrosive atmospheres and providing a pleasant surface finish.

Wherever sealing, jointing or corrosion problems occur, either 'on site' or at drawing board stage, builders, architects and civil engineers are recommended to consult the Expandite Technical Service Department for advice on these matters which is given without any obligation.

ANOTHER JOINTING PROBLEM SOLVED

EXPANDITE LIMITED

Specialists in the manufacture and use of Joint-Fillers, Sealing and Waterproofing Compounds, Concrete Additives, Anti-Corrosion Treatment and Mechanical Appliances.
CHASE ROAD, LONDON, N.W.10. TELEPHONE: ELGAR 4321 (14 lines)
Northern Depot: Trafford Park Rd., Manchester 17. Eire: Expandite (Ireland) Limited, Greenhills Rd. Walkinstown, Dublin. *ASSOCIATES AND DISTRIBUTORS THROUGHOUT THE WORLD*

THE BUILDER CURRENT PRICES

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. It is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

		£	s.	d.
Pit Ballast	per yd.	1	5	5
Pit Sand	,,	1	3	8
Washed Sand	,,	1	6	9
⅜ in. Shingle	,,	1	4	3
¾ in. Broken Brick	,,	1	0	9
Pan Breeze	,,	1	0	6
Fine or Coarse Foamed Slag Aggregate	per ton	3	8	0

2 yds. of fine and 2.6 yds. of coarse per ton.

CEMENT, etc.

Including non-returnable jute sacks or paper bags.

		£	s.	d.
Best British Portland Cement. Standard Specification delivered Charing Cross area.				
6-ton loads and upwards, site	per ton	5	10	0
1 to 6 tons, site	,,	6	2	0
Rapid-Hardening Cement in 6-ton loads and upwards to site	,,	6	0	6
1 to 6 tons do. site	,,	6	12	6
Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.				
Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices.				
Red, Buff or Khaki Colorcrete in 6-ton lots	,,	8	10	0
Other colours according to colour. In 4-ton lots from 308s. 0d. to 778s. 0d. per ton.				
White Portland Cement	,,	13	15	6
Under 1 ton	per cwt.		16	9
417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards	per ton	7	2	6
Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.				
Cullamix Tyrolean Finish, £11 8s. 0d. to £14 3s. 0d. (1-ton loads and upwards.)				
Lightning and Ciment Fondu Brands High Aluminous cement, 6-ton lots and up	,,	15	14	6
Stourbridge Fireclay, 6-ton loads at Railway Depot, London	,,	6	19	0
Stourbridge Fireclay, 6-ton loads (London sites)	,,	7	7	0
Moler Mortar Powder for Flue Bricks (London sites)	per cwt.	1	8	0

BRICKS

Full Loads.		£	s.	d.
First Hard Stocks	per 1,000	15	19	6
Second Hard Stocks	,,	14	3	6
Mild Stocks (Kiln Burnt)	,,	10	5	0
Mild Stocks	,,	10	0	0

All loaded free into lorry at the works. The question of haulage is still very difficult and prices must be obtained from job to job.

2½ in. Nominal Fletton Bricks to sites in W.C. district:				
Commons	,,	5	18	0
Cellular Commons	,,	5	18	0
Keyed do.	,,	6	0	0
Rustics	,,	7	10	0
Cellular Rustics	,,	7	10	0
Single Bullnose Commons	,,	7	12	6
Sandfaced	,,	8	10	0
Tuscans	,,	9	5	0
Saxons	,,	9	13	0
Golden Buffs	,,	10	0	0
Dapple Light Facings	,,	10	7	6
Heather Facings	,,	10	3	0
Best Blue Pressed Staffs (London stations)	,,	30	12	6
do. do. (London sites)	,,	30	14	0
do. Bullnose (London stations)	,,	31	11	6
do. do. (London sites)	,,	31	13	0
Blue Wire Cuts (London stations)	,,	27	5	0
do. do. (London sites)	,,	27	6	6
Midhurst Lime Bricks (London sites)	,,	10	15	6
Uxbridge Whites (London sites)	,,	10	19	0
Special Purpose Sandlime Bricks (London sites)	,,	8	12	0
Best Stourbridge Fire Bricks:				
2½ in. (London stations)	,,	30	12	3
2½ in. (London sites)	,,	31	1	0
3 in. (London stations)	per 1,000	36	14	9
3 in. (London sites)	,,	37	5	3
2¾ in. Moler Flue Bricks (London sites)	,,	29	0	0
2½ in. Machine-made Sandfaced Red Facings (London sites)	,,	17	7	6
2½ in. Machine-made Multi Red Facings (London sites)	,,	17	12	6
2½ in. Hand-made Sandfaced Red Facings (London sites)	,,	18	17	6
2½ in. Hand-made Sandfaced Multi-Colour Facings (London sites)	,,	18	17	6
Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites)	,,	19	13	0
Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites)	,,	19	13	0
Rubber Bricks for gauged arches (London sites)	,,	49	1	3
2½ in. Surrey Clamp Burnt Multi Stock Facings (London sites)	,,	14	14	0
2½ in. Surrey Kiln Burnt Multi Stock Facings (London sites)	,,	16	7	0
Glazed Bricks (London sites), White, Ivory, Brown:				
Stretchers	,,	64	0	0
Headers	,,	63	0	0
Quoins, Bullnose and 4½ in. Flats	,,	80	0	0
Double Stretchers	,,	85	0	0
Double Headers	,,	77	10	0
One side and two ends	,,	87	0	0
Two sides and one end	,,	89	10	0
Splays and Squints	,,	83	0	0

Cream and Buff, £3 extra over White. Other colours, hard glaze, £8 10s. 0d extra over White. All above prices plus 32½% for Best quality and plus 32½% less 10% for Second quality.

PARTITION SLABS, etc.

Delivered Central London Area. (W.C. District.)

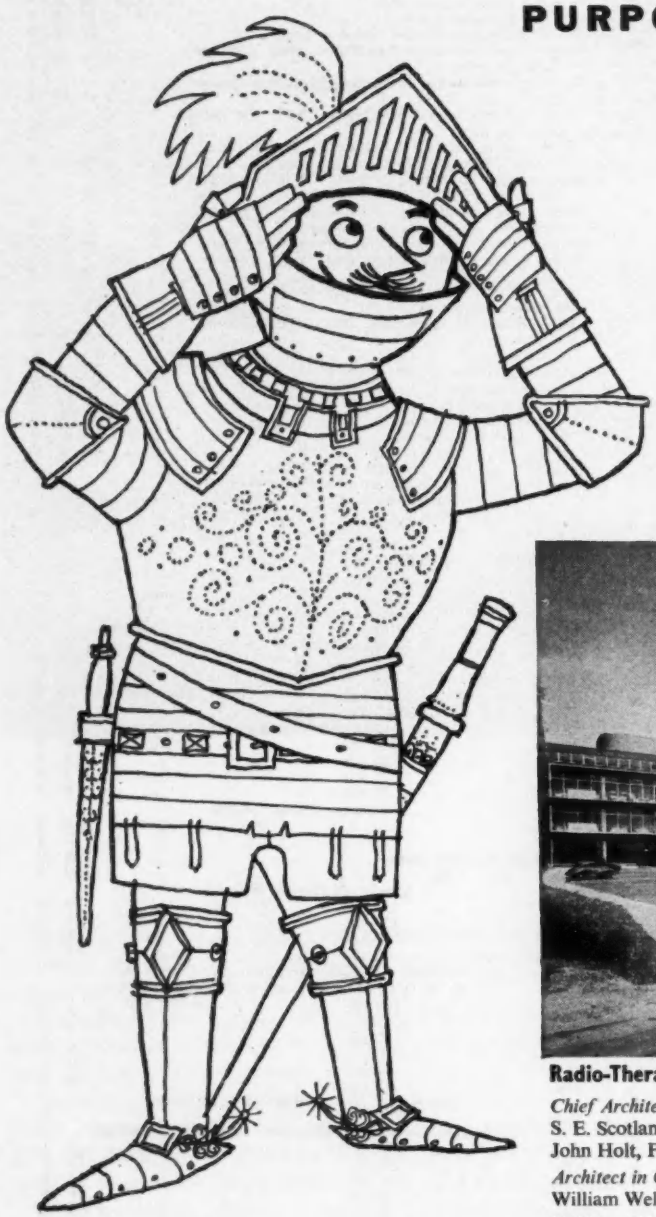
		£	s.	d.
Hollow Clay Partition Blocks (Keyed) Minimum lorry loads				
*2½ in. 140 yds.	per yd. sup.		4	5
Building Blocks (Keyed)				
*3 in. (6 cavity) 110 yds.	,,		5	5
*4 in. (6 cavity) 90 yds.	,,		6	10
6 in. (8½ in. × 5½ in.) 1,250 blocks	per 1,000	26	18	0

* Half blocks at no extra charge.

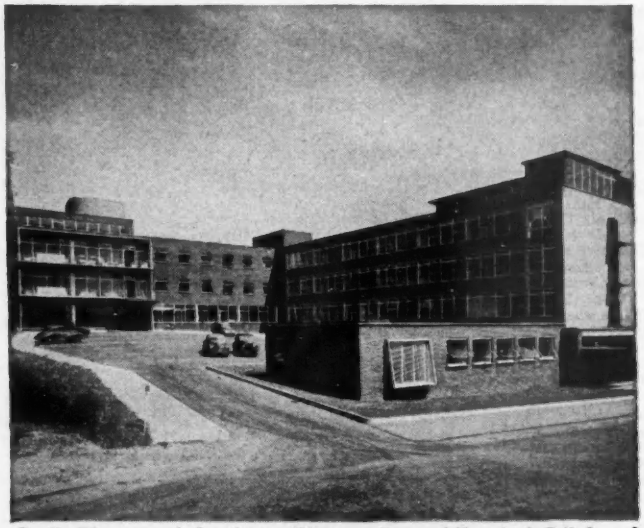
Clinker Concrete				
2 in. 100 yds.	per yd. sup.		3	9
2½ in. 85 yds.	,,		4	4
3 in. 75 yds.	,,		5	3
4 in. 55 yds.	,,		6	5
Cranham Terra Cotta				
2 in.	,,		6	9
2½ in.	,,		7	9
3 in. Load bearing quality	,,		8	9
4 in. do. do.	,,		10	9
Moler Partition Blocks				
2 in. 150 yds.	,,		10	6
2½ in. 120 yds.	,,		13	0
3 in. 100 yds.	,,		14	0
4 in. 90 yds.	,,		15	6
Lightweight Concrete Building and Partition Blocks of Various Sources of Manufacture				
2 in. 100 yds.	per yd sup.		5	4
2½ in. 80 yds.	,,		6	5
3 in. 65 yds.	,,		7	5
4 in. 50 yds.	,,		9	4
4½ in. 44 yds.	,,		10	2
6 in. 33 yds.	,,		13	5
Thermalite-Ytong Partition Blocks				
2½ in. 144 yds.	,,		7	0
Thermalite-Ytong Load-Bearing Insulating Blocks				
3 in. 120 yds.	per yd. sup.		8	5
4 in. 90 yds.	,,		11	0
5 in. 72 yds.	,,		13	9
6 in. 60 yds.	,,		16	6
8½ in. 42 yds.	,,	1	3	8
Floor Blocks and Filler Tiles				
Floor Blocks 12 in. × 12 in. delivered in full lorry-loads:				
3 in.	per 1,000	34	1	0
4 in.	,,	36	10	0
5 in.	,,	43	15	0
6 in.	,,	49	19	0
7 in.	,,	61	8	0
8 in.	,,	71	19	0
9 in.	,,	79	3	0
10 in.	,,	87	15	0
Filler Tiles in multiples of 10 tiles per 1,000 multiples:				
12 in. × 3 in. × ⅝ in.	,,	42	15	0
12 in. × 4 in. × ⅝ in.	,,	73	15	0
10 in. × 5 in. × ⅝ in.	,,	73	15	0

Braby

PURPOSE MADE WINDOWS



We are not so keen on these one-off jobs in wrought iron, but we challenge competition with our metal windows in steel, aluminium or bronze. So, where architectural requirements are not met by our standard range—which is very wide—we will design and manufacture windows to your exact specifications.



Radio-Therapeutic Institute, Western General Hospital, Edinburgh

Chief Architect:
S. E. Scotland Regional Hospital Board.
John Holt, F.R.I.B.A., A.M.T.P.I., F.R.I.A.S.
Architect in Charge:
William Wellwood, D.A. (Edin.), A.R.I.B.A., A.R.I.A.S.
Building Contractors:
W. & J. R. Watson Ltd.

FREDERICK Braby & COMPANY LIMITED

LONDON: *352-364 Euston Road, London, N.W.1*
Telephone: EUSton 3456

GLASGOW: *Eclipse Works, Petershill Road, Glasgow, N.*
Telephone: SPRingburn 5151

CRAYFORD · LIVERPOOL · BRISTOL · BELFAST · PLYMOUTH

AP148

STONEWARE DRAIN PIPES, etc.

The following are the percentages to be added to the Revised Standard List (Nov., 1956) prices delivered London Area.
Delivered ex Merchants Wharf or Depot.

	Over 2 tons	Over 50 pieces Under 2 tons	Under 50 pieces Under 2 tons
Best Quality ...	−18¾%	List price	+5%
BSS Best Quality...	+10% −18¾%	+10% list price	+10% +5%
Tested Quality ...	+37½% −18¾%	+37½% list price	+37½% +5%
BSS Tested Quality	+47½% −18¾%	+47½% list price	+47½% +5%

		£	s.	d.
3 in. Land Drain Pipes (in 12 in. lengths)	per 1,000	11	18	6
4 in. do. do.	,,	15	19	6
6 in. do. do.	,,	32	19	0
9 in. do. do.	,,	62	9	0

DAMP COURSE

		£	s.	d.
Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area	per yd. sup.		3	2
Asbestos base do. 7 lb. per yd. sup. do. do.	,,		5	2
Lead lined bitumen do. 9½ lb. per yd. sup. do. do.	,,		12	2
18 in. × 9 in. British damp course slates	per 1,000	43	8	11
14 in. × 9 in. do. do.	,,	32	8	2
9 in. × 9 in. do. do.	,,	18	18	9
18 in. × 4½ in. do. do.	,,	19	19	9
14 in. × 4½ in. do. do.	,,	15	18	3
9 in. × 4½ in. do. do.	,,	10	14	3

STONE

		£	s.	d.
Bath Stone				
Monks Park	per ft. cube		9	9
St. Aldhelm Box Ground	,,		11	0
Delivered in railway trucks at South Lambeth B.R. Western Region.				
Doulting Stone Random Blocks. Delivered London area	,,		10	4
Beer Stone. Delivered London area	,,		10	0
Portland Stone—				
Brown Whitbed in random blocks, 20 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region	,,		9	4
Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots.				
9 in. × 3 in. Rubbed, weathered, throated and stolled cills	per ft. cube	4	5	10
12 in. × 6 in. do. do. do.	,,	3	1	2
12 in. × 3 in. Plain coping, twice throated	,,	2	7	6
12 in. × 3 in. Weathered and twice throated coping	,,	3	3	3
14 in. × 6 in. do. do. do.	,,	2	17	0
4½ in. × 9 in. Plinth rubbed on top and face ...	,,	2	11	0
3 in. sawn two sides Slabs, random sizes ...	per ft. sup.		9	1
Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ...	per ft. cube	1	11	3
do. do. fair one edge for fair faced brickwork	,,	1	17	0
Hard York—				
12 in. × 2 in. Square Steps, rubbed on top and edge	per ft. run		11	0
14 in. × 3 in. Round-nosed Steps, rubbed on top and front	per ft. cube	2	18	3
12 in. × 6 in. Plain Steps, rubbed top and front	,,	2	11	0
2 in. Rubbed and Jointed Paving, given sizes ...	per ft. sup.		10	3
2 in. Sawn Paving, edges squared, in random sizes	per yd. sup.	3	12	0

TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000.

	£	s.	d.
Machine-made Pantiles and French pattern Tiles from Lincolnshire district	29	19	0
Hand-made Pantiles Berkshire district	55	18	0
Hand-made Double Roman Bridgwater district ...	64	4	1
Hand-made 10½ × 6½ tiles Berkshire district	15	18	3
Machine-made 10½ × 6½ Staffordshire district	15	2	6
Hand-made Hip and Valley tiles per doz.	1	11	10
Machine-made Hip and Valley tiles do.	1	10	1
Concrete tiles 10½ × 6½	8	10	0
do. Interlocking (49S)	19	16	6

NOTE.—Breakage in transit, purchasers' responsibility.

SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate station. Per 1,000 actual.

	£	s.	d.
24 × 12	150	19	7
22 × 12	122	14	2
22 × 11	110	16	4
20 × 12	103	19	1
20 × 10	99	11	6
18 × 10	69	2	6
18 × 9	60	11	9
16 × 10	54	8	10
16 × 8	42	12	4

NOTE.—Breakage in transit, purchasers' responsibility.

TIMBER

				£	s.	d.
Softwood		Ex Wharf	per standard	£115 to £140		
Joinery quality		do.	,,	£94 — £98		
Carcassing quality		do.	,,	£108	0	0
1 in. Tongued and Grooved Flooring		do.	,,			
Hardwood						
Mahogany—	African S.E.	do.	per ft. cube	1	10	0
do.	Honduras S.E.	do.	,,	3	5	0
Oak	European S.E.	do.	,,	2	10	0
do.	Japanese S.E.	do.	,,	3	0	0
do.	English Logs sawn ...	do.	,,	2	0	0
Teak	8 in. average S.E. ...	do.	,,	3	17	6
Walnut	African Logs sawn ...	do.	,,	1	2	6

DOORS (in Lots I–II)

Delivered London area.

		£	s.	d.
1½ in. 4 Horizontal Panel. Pattern 4 in. deal				
2 ft. 0 in. × 6 ft. 6 in.	each	1	16	0
2 ft. 3 in. × 6 ft. 6 in.	,,	1	17	6
2 ft. 6 in. × 6 ft. 6 in.	,,	1	18	6
2 ft. 9 in. × 6 ft. 6 in.	,,	2	0	6
2 in. do. but top panel open. Pattern 4 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	9	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	11	6
2 in. 2 Panel top panel open. Pattern 2 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	3	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	5	0

SUNDRIES

		£	s.	d.
Delivered London area.				
1 in. Wood Wool Slabs 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (89 yds. to 1 ton)	per yd.		6	2
1½ in. do. (67 yds. to 1 ton)	,,		8	0
2 in. do. (52 yds. to 1 ton)	,,		9	9½
2½ in. do. (45 yds. to 1 ton)	,,		11	3
3 in. do. (39 yds. to 1 ton)	,,		12	7½
Quantities under 1 ton add 1d. per ½ in. of thickness.				
½ in. imported insulation Board, quantities over 5,000 sq. ft.	per 100 sq. ft.	2	2	6
¼ in. Hardboard do.	,,	2	0	0
5/32 in. do. do.	,,	2	17	6
1/16 in. Asbestos Flat Building Sheets	per yd. sup.		4	3½
¼ in. do. do. do.	,,		6	0
Roofing Felt 1-ply	,,		1	9
do. 2-ply	,,		2	2½
Best Scotch Glue in slabs	per ½ cwt.	5	8	0
do. pearl	,,	5	8	0
Croid Glue	28 lb.	2	6	0
Cut Nails 3 in. (1-ton lots)	per ton	78	10	0
do. 4 in. and up (1-ton lots)	,,	75	0	0
Wire Nails 3 in. (4-cwt. lots)	per cwt.	3	13	5
do. 4 in. and up (4-cwt. lots)	,,	3	12	10

METALS

STEEL JOISTS, ETC.

		£	s.	d.
Basis Joists— 6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in., 12 in. × 6 in., plain cut to lengths delivered London area	per ton	48	15	6
Extra for sizes				
3 in. × 1½ in. 4 in. × 1½ in.	,,	3	10	0
3 in. × 3 in.	,,	2	10	0
4 in. × 3 in.	,,	2	5	0
10 in. × 4½ in.	,,	1	10	0
5 in. × 2½ in. 5 in. × 3 in.	,,	1	15	0
4½ in. × 1½ in.	,,	3	5	0
5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. ...	,,		15	0
6 in. × 3 in. 24 in. × 7½ in.	,,	2	0	0
6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. 9 in. × 4 in. 10 in. × 5 in.	,,	1	5	0
12 in. × 5 in. 22 in. × 7 in.	,,	1	0	0
9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in. 14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in. 15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in. 16 in. × 8 in. 18 in. × 6 in. 18 in. × 7 in. 18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in.	,,		10	0
Steel angles average price	,,	49	15	6
Steel tees average price	,,	50	15	6
Fabricated work delivered London— R.S. Joists cut and fitted	,,	65	15	0
Compound girders	,,	70	0	0
Stanchions	,,	75	15	0
Compound stanchions	,,	80	0	0
In Roof Work—Trusses and Purlins ... ... Average prices not for awkward work.	,,	89	17	6
Angle cleats and ⅜ in., ½ in. and ⅝ in. bolts average price London area	per cwt.	5	10	0

FERRO-CONCRETE BARS

		£	s.	d.
Mild Steel Ferro-Concrete bars British manufacture to BSS785 ex London Stock 1 in. diam., and upwards	per ton	49	10	0
¾ in. diam.	per ton extra	8	12	6
7/16 in. do.	,,	6	12	6
⅜ in. do.	,,	4	12	6
⅜ in. do.	,,	3	2	6
⅜ in. do.	,,	1	10	0
½ in. and ⅝ in. diam.	,,		15	0

MILD STEEL TUBES

Tubes to BSS 1387—1957 and Fittings. *Revised* list prices and following discounts :

Galvanised Tube—	Under 1 ton	Over 1 ton	W.I. Fittings	Malleable Fittings
Light	−39%	−40½%	Light −26½%	Malleable List
Medium	−35%	−36½%	Heavy −22½%	−23% +40%
Heavy	−27½%	−29%		
Black—				
Light	−50%	−51½%	Light −32½%	Malleable List
Medium	−46%	−47½%	Heavy −28½%	−23%
Heavy	−38½%	−40%		

C.I. HALF-ROUND GUTTERS

Delivered London per yd. in 6 ft. lengths.

	Gutters	Nozzles	Stop Ends
3 in.	4/0½	3/7	1/-
3½ in.	4/4½	3/11	1/-
4 in.	5/8	4/5	1/7
4½ in.	6/3	4/11	1/10
5 in.	6/11½	5/4	2/2

METALS—*continued*

C.I.O.G. Gutters

Per yd. in 6-ft. lengths:	Gutters	Nozzle	Stop Ends
3 in.	5/2½	4/8	1/3
3½ in.	5/10	4/8	1/7
4 in.	6/5	4/11	1/10
4½ in.	6/11½	5/8	2/2
5 in.	7/7½	6/5	2/6

C.I. Rain-Water Pipes

	Pipe	Bends	Branches
2 in.	8/7½	4/5	6/4
2½ in.	8/7½	4/11	8/6
3 in.	9/8½	6/2	9/2
3½ in.	11/0½	7/3	11/-
4 in.	12/9	8/9	13/1

L.C.C. Coated Soil Pipes

2 in.	9/8½	7/7	9/2
2½ in.	10/4	8/5	11/5
3 in.	11/7	9/2	13/7
3½ in.	12/11½	11/5	15/10
4 in.	14/9	12/9	18/8

Above prices for gutters, rain-water and soil pipes for under 5-cwt. lots. only. Lots over 5 cwt. see List No. 3300, dated February 1, 1955, plus 22½% and tonnage allowance. 4-ton lots 5%. 2-ton lots 2½%.

L.C.C. Coated Drain Pipes

In 9-fts.:	cwt.	qt.	lb.	Per yd.	Bends	Branches
4 in.	1	1	17	35/3	23/9	42/-
6 in.	2	0	1	51/7	63/9	101/-

Asbestos Rain-Water Pipes and Fittings

All less 17½% discount.		2 in.	2½ in.	3 in.	4 in.
Pipes, 6-ft. lengths ...	per yd.	4/7	4/10½	5/11	7/10
Shoes ...	each	3/-	3/3	3/10	5/2
Single Branches ...	"	4/8	5/6	6/7	9/2
Bends, square or obtuse ...	"	3/3	3/7	4/8	6/7
Swan Necks, 4½ in. proj....	"	3/7	4/8	5/2	7/3
do. 6 in do....	"	3/10	5/2	5/10	7/10

Asbestos O.G. Gutters and Fittings

		4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	per yd.	4/4	4/9½	5/9	6/10½
Drop ends ...	each	3/6	4/-	4/9	5/5
Stop ends ...	"	1/1	1/2	1/3	1/5
Angles ...	"	3/7	4/1	5/-	5/10
Nozzles ...	"	3/6	4/-	4/9	5/-
Union Clips ...	"	1/9	2/1	2/6	2/11

Asbestos Half-Round Gutters and Fittings

		3 in.	4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	per yd.	3/0½	3/7½	3/8½	4/4½	6/1
Drop ends ...	each	2/6	3/-	3/3	3/7	5/2
Stop ends ...	"	1/-	1/1	1/2	1/3	1/5
Angles ...	"	2/10	3/3	3/7	3/10	5/2
Nozzles ...	"	2/6	3/-	3/3	3/7	5/2
Union Clips ...	"	1/3	1/4	1/5	1/7	2/5

	Per ton basis in London £ s. d.
Iron—Staffordshire Crown Merchant Quality ...	52 17 6
Mild Steel Bars ...	47 8 6
Mild Steel Hoops ...	49 0 0

	Ex Merchant's Stock per ton Two-ton lots £ s. d.
Soft Sheets C.R. and C.A.—	
20 gauge ...	62 7 6
24 gauge ...	64 17 6
26 gauge ...	67 17 6
Galvanised Corrugated Sheets, 6-ft. to 9-ft. —	
20 gauge ...	70 18 0
24 gauge ...	74 8 0
26 gauge ...	79 13 0
Galvanised Flat Sheets C.R. and C.A.:	
20 gauge ...	72 8 0
24 gauge ...	75 18 0
26 gauge ...	81 3 0

ALUMINIUM AND ALUMINIUM ALLOYS

(Base Prices)		£ s. d.
Sheet BS 1740 S1C 18 SWG (36 in. wide)... ...	per lb.	2 11½
Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide)	"	2 10½
Coiled strip BS 1470 S1C 18 SWG (24 in. wide)	"	2 10½
Coiled strip BS 1470 NS3 Utility 18 SWG (24 in. wide) ...	"	2 10
Coiled strip for flashing, high purity, 22 SWG (12 in wide) ...	"	3 1
Corrugated sheet BS 1470 NS3 Circular Profile 8 ft. × 32 in. × 20 SWG ...	per sheet	1 13 0
Corrugated sheet BS 1470 NS3 Industrial Profile 8 ft. × 31½ in. × 20 SWG ...	"	1 18 8
Corrugated sheet BS 1470 NS3 Mansard Profile 8 ft. × 31½ in. × 20 SWG ...	"	1 12 1
Extruded section BS 1476 E1C simple moulding	per lb.	2 9½
Extruded section BS 1476 E1C 1 in. diam. round	"	2 7
Extruded section BS 1476 HE10WP simple angle	"	3 0½
Extruded section BS 1476 HE10WP 1 in. diam. round ...	"	2 11½
Tubing BS 1471 T1C 1½ in. O/D × 20 SWG ...	"	4 5½
Tubing BS 1471 HT10WP 1½ in. O/D × 20 SWG	"	5 10

PLUMBERS' BRASS WORK, etc.

Delivered in London area.

All per dozen	M.O.H. ½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown bib cocks Crutch head for iron...	87/-	128/-	—	—	—	—
Toilet bib cocks for iron ...	109/-	158/5	—	—	—	—
Screwdown stop cocks for iron	66/-	95/9	188/-	363/-	522/6	917/6
do. with two unions for lead	89/-	132/-	234/4	472/-	623/6	1,389/6
Double nut boiler screws ...	18/8	26/5	47/6	48/6	67/-	93/6
Heavy Croydon ball valves...	77/-	193/6	312/5	568/8	734/10	—
Plumbers' union brass lead to iron	19/6	23/6	38/6	52/10	70/6	165/-
	1¼ in.	1½ in.	2 in.	3 in.	3½ in.	4 in.
Caps and Screws	33/-	40/8	59/6	92/5	118/10	155/3
Brass Sleeves	—	31/11	31/11	56/2	74/10	91/5
	1¼ × 6 lb.	1½ × 6 lb.	2 × 7 lb.	3 × 7 lb.		
Lead P. trap with brass cleaning screws	64/10	81/-	129/6	221/6		
Lead S. trap do. do.	78/6	97/3	159/6	286/3		

Solder:			s. d.
Plumbers' ...	1 cwt. lots	320/-	14 lb. lots per lb. 3 7
Tinmen's	" "	404/-	" " " 4 5
Blow pipe ...	" "	407/-	" " " 4 6

Copper Tubes and Sheets

Copper tubes BSS 659/1944 on the basic price of 29½d. per lb. plus gauge and manufacturing extras as follows. Minimum quantities, 10 cwt.

	Extra d.		d.		d.
¼ in. × 19 gauge	15½	Total per lb.	44½	Approx. per ft.	12
⅜ in. × 19 "	13½	" "	42½	" "	16½
1 in. × 18 "	12½	" "	41½	" "	25½
1¼ in. × 18 "	11½	" "	40½	" "	31
1½ in. × 18 "	11½	" "	40½	" "	37
2 in. × 17 "	13½	" "	42½	" "	59½

Small Quantity extras :—
10 cwts. to 5 cwts. ... ... plus ½d. per lb.
5 cwts. to 2 cwts. ... ... " 1d. "
2 cwts. to 1 cwt. ... ... " 2d. "

	£ s. d.
Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras	285 0 0

Zinc

	£ s. d.
Sheet Zinc, 10 gauge (25 SWG), 5 cwt. lots upwards per cwt.	7 15 3
" " 12 gauge (23 SWG), " " " "	7 14 9
" " 14 gauge (21 SWG), " " " "	7 13 6

Brass Tubes

Brass tubes, basic price, plus gauge and manufacturing extras ... ... per lb.	2 0

LEAD SHEET AND PIPES

Basis selling price to one address in London or Home Counties :

		£ s. d.
Lead Sheet, English, 3½ lb. substance and upwards	per ton	112 15 0
" Water Pipe, in coils	"	115 0 0
Lead Soil Pipe, 10 ft. or over 2 in. to 4 in. dia.	"	116 10 0
" " " over 4 in. dia.	"	118 10 0
" Gas or Untinned Compo pipe...	"	116 10 0

5 cwt. lots and over less 6d. per cwt. off basic prices.

Extras over Basis for quantities under 5 cwt.:		
3 cwt. and under 5 cwt.	per cwt.	4 0
1 cwt. do. 3 cwt.	"	6 0

Smaller quantities than 1 cwt. priced specially.

Supplying sheet lead and lead pipe to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.

Allowance for Old Lead, collected, £63 0s. 0d. per ton weighed at buyer's works.

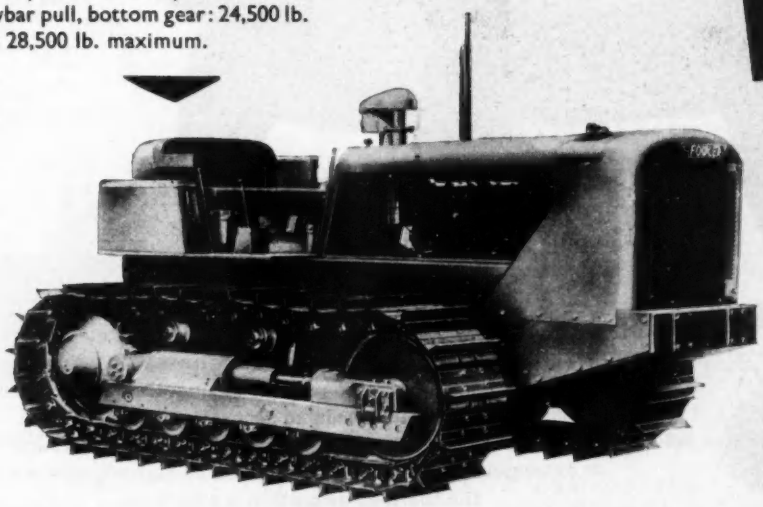
PLASTER, etc.

		£ s. d.
Coarse Pink in 1-ton loads and ov delivered on site	per ton	8 4 6
do. White do. do. do.	"	8 14 0
Sirapite Coarse BSS 1191 Class C do.	"	8 15 9
do. Fine do. do. do.	"	9 3 3
do. Browning BSS 1191 Class B do.	"	8 15 9
do. Board Finish do. do.	"	8 15 9
Blue Lias Lime, in 6-ton loads	"	6 14 6
Hydrated Lime (Grey), in 6-ton loads	"	5 10 0
do. (White) do.	"	6 0 0
Lump Lime (Grey) do.	"	5 7 0
do. (White) do.	"	5 14 6
White Keen's or Parian Cement, in 1-ton loads...	"	11 19 3
Pink Keen's or Parian Cement, in 1-ton loads ...	"	11 14 0
Granite Chips, in 6-ton loads	"	2 5 3
Hair	per cwt.	4 17 6
Gypsum Plaster Lath or Base Board, ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	per yd.	2 3½
1,200 yds.	"	2 2½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	"	2 9
1,200 yds.	"	2 9
Gypsum Plaster Wall Boards, 3 and 4 ft. wide 6 to 12 ft., ⅜ in. thick, 600 yds, and over in one delivery. Delivered site	"	2 6½
1,200 yds.	"	2 5½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	"	3 0
1,200 yds.	"	3 0

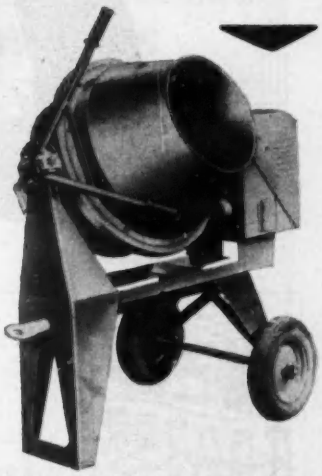
WARDS
SUPPLY EVERYTHING for the BUILDER & CONTRACTOR

ON SALE OR HIRE

The latest development in the 'Challenger' range of crawler tractors (made by John Fowler & Co. (Leeds) Ltd., and distributed in the U.K. by Wards), is the CHALLENGER 33, powered by Leyland 680 type engine; 125 b.h.p. at 1,700 r.p.m. Speed range: 1.65 m.p.h. to 6.22 m.p.h. Sustained drawbar pull, bottom gear: 24,500 lb. with 28,500 lb. maximum.



4/3 Concrete Mixer, side discharge, weight 3½ cwt. Balanced steel drum with reinforced edge. Also available as end discharge model.
A full range of concrete mixers is available, from 3/2 Capacity. Diesel or electric motor.



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LOCO STEAM CRANES · MOBILE CRANES · PORTABLE PUMPS · ROAD ROLLERS · SCRAPERS · TRACTORS
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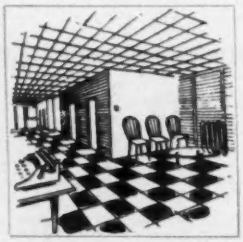
GLASGOW · 'PHONE SCOTSTOUN 8083
BRITON FERRY · GLAM · 'PHONE 3166
COVENTRY · 'PHONE BEDWORTH 3011

CAIL8

Quiet Distinction —and we really mean quiet!

Fibreglass Acoustic Tiles. Here for the first time, is a ceiling material that not only has high sound absorption and light reflection, but also presents a smooth, unperforated surface. This surface needs no decoration and no more than an occasional wipe to keep it clean. Its appearance is extremely pleasing and, in addition to high sound absorption, the thermal insulation is excellent.

The tiles are based on a rigid board of glass fibres faced with a decorative plastic film which is completely stable. There is a choice of two surface patterns. They are extremely light —6½ lb. per sq. yd.—and will not warp or buckle, expand or contract. Fitting is simple—by demountable or fixed systems, by adhesion or clips.



FIBREGLASS TRADE MARK

ACOUSTIC TILES

Fibreglass Ltd., St. Helens, Lancs. St. Helens 4224

PAINTS AND DISTEMPER

Delivered London area.		£	s.	d.
Ceiling Distemper	per cwt.	1	7	6
Washable Distemper	,,	5	5	0
Gloss Paint	per gal.	2	12	0
Super Snowcem cement paint (in 1 cwt. drums) ...	per cwt.	4	0	0
LEAD PRODUCTS AND OILS				
Ground White Lead, in 1 cwt. kegs	per cwt.	9	7	6
Genuine White Lead Paint, 1-19 gal. lots in 1 gal. tins	per gal.	3	6	6
Genuine Red Lead, Dry, 1 cwt. keg (10 ton lots)	per cwt.	5	12	6
do. do. do. (1 cwt. lots)	,,	6	19	0
Genuine Linseed Oil Putty, 1 cwt. keg	,,	2	12	6
Size XD quality 28 lb.	per tin		9	0
Raw Linseed Oil (5 gal.) drums extra	per gal.		19	2
Boiled Linseed Oil (5 gal.) do.	,,		20	0
SUNDRIES				
Turpentine substitute (5 gal.) drums extra	,,		5	4¾
do. do. (40 gal.) do.	,,		4	8¾
Solignum, Brown (5 gal. cans) Exterior	,,		8	8
Creosote (40 gal. barrels)	,,		2	3
Paste Powder (1 lb. packets)	per lb.		2	4
White Lining Paper	per piece		1	2

VARNISHES, etc.

Delivered London area.		£	s.	d.
Oak Varnish, Outside or Inside	per gal.	2	0	0
Oal Pale Copal do. do.	,,	2	0	0
Hard Drying Oak for Inside	,,	2	5	0
Crystal Paper Varnish do.	,,	2	8	0
Eggshell Flat Varnish do.	,,	2	2	0
Finest Carriage Varnish	,,	2	7	0
Front Door Varnish	,,	2	4	0
Japan Gold Size	,,	1	12	0
Black Japan	,,	1	16	0
Brunswick Black	,,	1	12	0
Berlin Black	,,	1	10	0
Terebene	,,	1	12	0
Knotting (1 gal. bottles free)	,,	1	15	0
French and Brush Polish (do.)	,,	1	15	0

GLASS

Delivered London area.		s.	d.
18 oz. Sheet Glass Ordinary Glazing Quality— Cut Sizes	per ft. sup.		9¼
24 oz. do. do. do. do.	,,		11½
26 oz. do. do. do. do.	,,	1	2¼
32 oz. do. do. do. do.	,,	1	6½
⅛ in. Rolled Plate	,,	1	2½
3/16 in. Rolled and Rough Cast	,,	1	5
¼ in. do. do.	,,	1	5¾
⅛ in. Figured Rolled and Cathedral, Standard patterns— White Group 1	per ft. sup.	1	2½
do. Group 2	,,	1	8¼
do. Standard Tints	,,	2	1½
do. Special Tints	,,	7	3
⅛ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating Group 3	,,	1	7¼
¼ in. Wired Cast	,,	1	9¼
¼ in. Georgian Wired Cast	,,	1	9½
Hollow Glass Blocks—			
P.B.2 5¾ × 5¾ × 3¾ in.	each	3	3
P.B.3 7¾ × 7¾ × 3¾ in.	,,	5	0
P.B.32 7¾ × 7¾ × 3¾ in.	,,	5	0
Radiused Corner Blocks to match up with—			
P.B.2	,,	6	0
P.B.3	,,	7	6
P.B.32	,,	7	6
¼ in. Polished Plate Glass, G.G. quality—			
In plates not exceeding 2 ft. sup.	per ft. sup.	4	7
,, ,, ,, 5 ft. sup.	,,	5	7
,, ,, ,, 45 ft. sup.	,,	6	9
,, ,, ,, 100 ft. sup.	,,	7	4
¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality—Not exceeding 135 ft. sup. or 240 in. one way or 130 in. both ways ...	,,	10	9
Not exceeding 180 ft. sup. or do.	,,	14	3

Plates exceeding 180 ft. sup. prices on application.
Substances other than ¼ in. Polished Plate at Special Prices.
Quantity Tariff—Sheet and Sundry Glass.
The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

Description of Glass	Minimum quantity	per ft. sup. s.	d.
18 oz. sheet O.Q.	3,000		6¾
24 oz. ,, ,, ...	2,000		8¾
26 oz. ,, ,, ...	2,000		11
32 oz. ,, ,, ...	2,000	1	2½
⅛ in. Rolled Plate	1,000		10½
⅛ in. Figured Rolled and Cathedral Standard Patterns, White Group 1	1,000		10½
do. Group 2	1,000	1	2
⅛ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte Group 3	1,000	1	2
3/16 in. Rolled Plate or Rough Cast	2,000	1	1
¼ in. do. do.	2,000	1	1½
¼ in. Wired Cast, Hexagonal	2,000	1	4½
¼ in. Georgian Wired Cast	2,000	1	4½

THE BUILDER RATES OF WAGES

AS FROM OCTOBER 5, 1959. **(Every endeavour is made to ensure accuracy but we cannot be responsible for errors.)**

KEY TO SCHEDULE OF GRADE RATES.

Grade Classification	A	A1
Craftsmen	4/9	4/8½
Labourers	4/2½	4/2

Town	*Grade*
Aberavon	A
Aberdare	A
Abergavenny	A
Abingdon	A1
Accrington	A
Addlestone	A
Afan Valley	A
Aldeburgh	A1
Aldershot District	A1
Alfreton UD	A
Alnwick UD	A
Altrincham	A
Amble	A
Ambleside	A
Amersham	A
Ammanford	A
Andover	A1
Anglesey, Isle of	A
Ardingly	A1
Arundel	A1
Ascot	A1
Ashbourne RD	A1
Ashbourne UD	A1
Ashby-de-la-Zouch UD	A
Ashby Woulds UD	A
Ashford (Kent)	A1
Ashford (Middlesex)	A
Ashington UD	A
Ashtead	A
Ashton-under-Lyne	A
Aspatria and Brayton	A
Atherstone RD	A
Attleborough	A1
Axminster	A1
Aylesbury	A1
Aylsham	A1
Bagshot	A1
Bakewell UD	A1
Banbury	A1
Bangor	A
Barnard Castle UD	A
Barnoldswick UD	A
Barnsley CB	A
Barnstaple	A1
Barrow-in-Furness	A
Barrow-upon-Soar RD (part Thrussington)	A1
Barry	A
Basford RD (ex. Willough-by-on-the-Wolds A1)	A
Basingstoke	A1
Bath	A
Batley MB	A
Baxterley	A1
Beaconsfield District	A
Bearl	A
Beccles	A1
Bedale RD	A
Bedford	A
Bedlington	A
Bedlingtonshire UD	A
Bedwas	A
Beeston & Stapleford UD	A
Belper UD	A
Belton	A
Berkhamsted	A
Berrington	A
Berwick Borough	A
Beverley MB	A
Bewdley MB	A
Bexhill-on-Sea	A1
Bideford	A1
Biggleswade	A1
Billericay	A
Billing	A
Billingham UD	A
Bilsthorpe	A
Bilston MB	A
Birchington	A1
Birkenhead	*
Birmingham CB	†A
Bishop Auckland UD	A
Bishop's Stortford	A
Bishops Castle MB	A1
Bispham	A
Blackburn	A
Blackpool	A
Blackwell RD	A
Blandford	A1
Blaydon UD	A
Blidworth	A
Blyth B.	A
Bodmin	A1
Bognor Regis	A1
Boldon UD	A
Bolsover UD	A
Bolton	A
Boston MB	A
Bourne End	A
Bournemouth District	A
Brackley MB	A1
Bracknell	A1
Bradford CB	A
Bradford-on-Avon	A1
Braintree	A1
Brandon & Byshottles UD	A
Brecon, Borough of	A1
Breconshire, County of	‡A1
Brent Knoll	A1
Brentwood	A
Bridgend	A
Bridlington MB	A
Bridlington RD	A
Bridgnorth MB	A
Bridgnorth RD	A1
Bridgwater	A1
Brierfield	A
Brighouse MB	A
Brighton & Hove	A
Bristol District	A
Broadstairs	A1
Bromsgrove UD	A
Broughton, Flint	A
Buckfastleigh	A1
Buckingham	A1
Buckley	A
Bungay	A1
Burnham-on-Crouch	A1
Burnham-on-Sea	A1
Burnley	A
Burton-on-Trent CB	A
Bury	A
Bury St. Edmunds	A1
Buxton	A
Byfleet	A1
Caernarvon	A
Caernarvonshire, Cnty. of ‡	A
Calder Valley	A
Camberley District	A1
Cambridge	A
Cannock UD	A
Canterbury	A1
Cardiff	A
Cardiganshire, Cnty. of	‡A1
Carlisle	A

CURRENT RATES OF WAGES—Continued

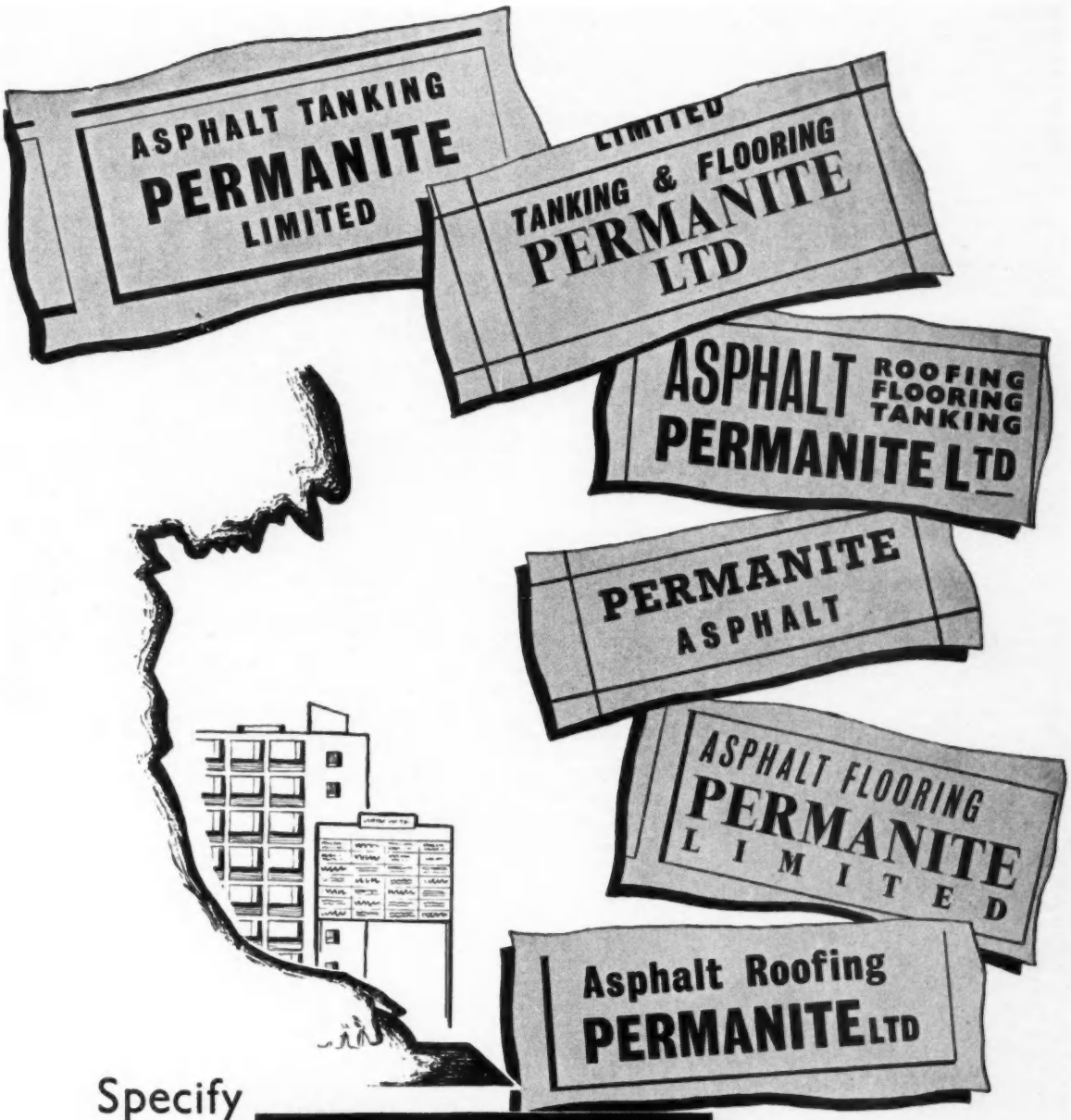
Town	Grade
Carlton UD	A
Carmarthen—Borough of	A
Carmarthenshire, Cnty. of	A
Carnforth	A
Castleford UD	A
Caterham	A
Chapel-en-le-Frith	A
Chard	A1
Charmy Down	A
Chatham District	A
Chatteris	A1
Cheadle (Staffs) RD	A
Chelmsford	A
Cheltenham	A
Chepstow	A
Chertsey	A
Chester	A
Chester-le-Street UD	A
Chesterfield MB	A
Chesterfield RD	A
Chichester	A1
Chipping Norton	A1
Chipping Sodbury	A1
Chippenham (inc. Chippenham Within and Hardenhuish)	A1
Chorley	A
Cirencester	A1
Clacton	A1
Clay Cross UD	A
Cleethorpes MB	A
Clevedon	A1
Cleveleys	A
Clitheroe	A
Coalville UD	A
Cobham (Surrey)	A
Colchester	A
Colne	A
Colwyn Bay	A
Congleton	A
Consett UD	A
Conway	A
Corby UD	A
Cornwall, County of	‡A1
Corsham District	A
Coventry CB	A
Cranbrook	A1
Cranleigh	A1
Cranwell Aerodrome Site	A
Crawley	A
Crewe	A
Crewkerne	A1
Cromer	A1
Crook and Willington UD	A
Crowborough	A1
Cuckfield	A1
Cwmbran	A
Dalton-in-Furness	A
Darlington CB	A
Dartmouth	A1
Darwen	A
Daventry MB	A
Deal	A1
Denbigh Town	A
Derby CB	A
Devizes	A1
Devon, County of	‡A1
Dewsbury CB	A
Didcot	A1
Diss	A1
Doncaster CB	A
Dorchester	A1
Dorking	A
Dorset, County of	A1
Dover	A1
Dovercourt	A
Driffield UD	A1
Drigg & Carleton	A
Droitwich MB	A
Dudley CB	A
Dunstable	A
Durham B	A
Eastbourne	A
E. Glam. & Mon. Val.	A
East Grinstead District	A1
East Keateven RD	A1
East Retford MB	A
Eastwood (Notts) UD	A
Ebbw Vale & District	A
Edenbridge	A1
Ely	A1
Epping	A
Evesham MB	A1
Exeter	A
Exmouth	A1
Fakenham	A1
Falmouth	A1
Fareham	A
Faversham	A1
Felixstowe	A1
Filey UD	A
Fleetwood	A
Flint MB	A
Folkestone	A1
Frinton	A1
Frome	A1
Gainsborough UD	A
Gateshead CB	A
Gillingham (Dorset)	A1
Gillingham (Kent)	A
Glastonbury & Street	A1
Glossop	A
Gloucester	A
Gloucestershire, Cnty. of	‡A1
Godalming	A1
Goole, MB	A
Goole RD	A
Gosport	A
Grantham MB	A
Gravesend	A
Great Yarmouth	A
Grimsby CB	A
Grimsby RD (part)	A1
Guildford District	A1
Halesowen MB	A
Halifax CB	A
Halstead	A1
Haresfield	A1
Harlow	A
Harpenden	A
Harrogate MB	A
Hartlepool B	A
Harwell	A1
Harwich	A
Haslemere	A1
Hastings	A1
Hatfield (Herts)	A
Havant	A
Haywards Heath	A1
Heanor UD	A
Hemel Hempstead	A
Henley-on-Thames	A1
Hereford	A1
Herefordshire, Cnty. of	‡A1
Herne Bay	A1
Hertford	A
Hexham RD	A
Hexham UD	A
Heysham	A
Heywood	A
Higham Ferrers MB	A
High Wycombe	A
Hinckley UD	A
Hitchin	A
Hoddesdon	A
Holywell	A
Horley	A1
Horncastle UD	A1
Horsham	A1
Horwich	A
Huddersfield CB	A
Hull	A
Hunstanton	A1
Huntington (Staffs)	A
Ilfracombe	A1
Ilkeston MB	A
Ilkley UD	A
Ipswich	A
Isle of Sheppey	A1
Isle of Thanet	A1
Isle of Wight	A1
Jarrow B.	A
Keighley MB	A
Kendal	A
Kenilworth UD	A
Kettering MB	A
Keynsham	A
Kidderminster MB	A
Kingskerswell	A1
King's Lynn	A1
Kingsteignton	A1
Kirkham	A
Knaresborough UD	A
Knutsford	A
Lancaster	A
Leamington MB	A
Leatherhead	A
Leeds CB	A
Leek UD	A
Leicester CB	A
Leighton Buzzard	A1
Leiston	A1
Leominster	A1
Letchworth	A
Lewes	A1
Lichfield MB	A
Lincoln CB	A
Liskeard	A1
Littlehampton	A1
Liverpool	*
Llandudno	A
Llanelly (inc. Llanelly RD)	A
Llanfairechan	A
Llangollen	A
London	*
Long Eaton	A
Looe	A1
Loughborough MB	A
Louth MB	A1
Lowestoft	A
Loxton	A1
Ludlow MB	A1
Ludlow RD	A1
Luton	A
Lyme Regis	A1
Lyneham (Devon)	A1
Lytham	A
Macclesfield	A
Maidenhead	A
Maidstone	A
Maldon (Essex)	A1
Maltby UD	A
Malton UD	A
Malvern UD	A
Manchester	A
Manningtree	A1
Mansfield MB	A
March	A1
Margate	A1
Market Harborough RD.	A1
Market Harborough UD.	A
Market Rasen UD	A1
Martock	A1
Maryport	A
Matlock UD	A
Melksham	A1
Melton Mowbray UD	A
Merionethshire	A
Merthyr	A
Mexborough UD	A
Middlesbrough CB	A
Middleton	A
Middlewich	A
Mildenhall	A1
Milford Haven UD	A1
Minchead	A1
Monmouth—Borough of.	A
Monmouthshire	A
Morecambe	A
Moreton Valence	A1
Morley	A
Morpeth B	A
Morpeth RD	A
Mundesley	A1
Nantwich	A
Neath & Valley	A
Nelson	A
Newark MB	A
Newbury	A1
Newcastle-upon-Tyne CB	A
Newcastle-under-Lyme	A
New Forest District	A1
Newmarket	A1
Newport, Mon.	A
Newport Pagnell	A1
Newquay	A1
Newton Abbott	A1
Normanton UD	A
Northallerton District	A
Northallerton UD	A
Northampton CB	A
North Shields	A
North Walsham	A1
Northwich	A
Norton Radstock	A1
Norwich	A
Nottingham CB	A
Nuneaton MB	A
Oakham RD	A1
Oakham UD	A1
Okehampton	A1
Oldham	A
Ongar	A
Ormskirk	A
Ossett & Horbury	A
Oswestry	A
Oundle UD	A1
Oxford	A
Oxted	A1
Padstow	A1
Paignton	A1
Par	A1
Pembrokeshire	A
Penmaenmawr	A
Penrith UD	A
Penzance	A1
Peterborough, Soke of (Eastern Regional portion)	A1
Petersfield	A1
Pickering	A
Plymouth	A
Pontefract MB	A
Pontypool & District	A
Pontypridd District	A
Porthcawl	A
Portishead	A
Portland Bill	A1
Portsmouth	A
Port Talbot	A
Preston	A
Princetown	A1
Pudsey MB	A
Pulborough	A1
Radnorshire, County of	‡A1
Ramsgate	A1
Raunds UD	A
Rayleigh	A
Reading	A
Redcar B	A
Redditch UD	A
Redhill & Reigate	A
Rhondda Valley	A
Richmond B (Yorks.)	A
Ripon MB	A
Rochdale	A
Rochester	A
Ross-on-Wye	A1
Rossendale Valley	A
Rotherham CB	A
Royston	A1
Rugby MB	A
Rugeley UD	A1
Rushden UD	A
Saffron Walden	A1
St. Albans	A
St. Austell	A1
St. Helens	A
St. Neots	A1
Salisbury City	A1
Salisbury Plain	A1
Sandy	A1
Sawbridgeworth	A
Saxmundham	A1
Scarborough MB	A
Scunthorpe MB	A
Seaford & Newhaven	A1
Selby UD	A
Sevenoaks	A
Shaftesbury	A1
Sheerness	A1
Sheffield MB	A
Shepton Mallet	A1
Sherborne	A1
Shipley	A
Shoeburyness	A
Shoreham	A
Shrewsbury MB	A
Sirhowy Valleys	A
Sittingbourne	A1
Skegness UD	A1
Skipton UD	A
Sleaford UD	A
Slough, Windsor & Eton District	A
Smethwick CB	†A
Smettisham	A1
Solihull B.	A
Somerset, County of	‡A1
Southampton & Eastleigh	A
Southend-on-Sea District.	A
Southport	A
South Shields CB	A
Southwold	A1
Spalding UD	A1
Stafford MB	A
Staines	A
Stamford MB	A
Stantonwick	A
Stevenage	A
Stockport	A
Stockton RD	A
Stockton-on-Tees B	A
Stoke-on-Trent CB	A
Stoke Orchard	A1
Stourbridge MB	A
Stourport UD	A
Stowmarket	A1
Stratford-on-Avon MB	A
Stroud (RD Area)	A1
Sunderland CB	A
Sunningdale	A1
Sutton Coldfield MB	A
Swadlincote UD	A
Swaffham	A1
Swanage District	A1
Swansea	A
Swindon District	A
Swinton UD	A
Tamworth MB	A
Taunton	A1
Tavistock	A1
Tenterden	A1
Teignmouth	A1
Tewkesbury	A1
Thames Haven	A
Thetford	A1
Thirsk RD	A
Thorpe Bay	A
Thurrock UDC (including Tilbury, Grays and the area north to Billericay)	A
Todmorden MB	A
Tonbridge	A1
Torquay	A1
Totnes	A1
Tring	A1
Trowbridge	A1
Truro	A1
Tunbridge Wells	A1
Tynemouth CB	A
Ulverston	A
Uppington (Salop)	A1
Uttoxeter RD	A1
Uttoxeter UD	A1
Wakefield CB	A
Wakefield RD	A
Walsall CB	A
Wallsend B	A
Walsden	A
Walton-on-Naze	A1
Ware	A
Warminster	A1
Warrington	A
Warwick MB	A
Wednesbury MB	A
Wellingborough UD	A
Wellington UD	A
Wellington (Somerset)	A1
Wells (Norfolk)	A1
Wells (Somerset)	A1
Welwyn	A
Welwyn Garden City	A
West Bromwich CB	A
Westbury	A1
Westcliff-on-Sea	A
Westerham	A1
West Hartlepool CB	A
Westmorland	A
Weston-super-Mare	A1
Weybridge	A
Weymouth (incl. Portland Bill, excl. Portland Stoneyards)	A1
Whitby UD	A1
Whitby RD	A1
Whitehaven	A
Whitley & Monkseaton UD	A
Whitstable & District	A1
Wickford	A
Widnes	A
Wigan	A
Wigton	A
Wilmslow	A
Wiltshire, County of	‡A1
Wimborne	A1
Wincanton	A1
Winchester	A1
Windermere	A
Wisbech	A1
Witham	A1
Withernsea UD	A
Woking	A1
Wokingham	A1
Wolverhampton CB	A
Wolverton District	A1
Woodbridge	A1
Woodhall Spa UD	A1
Woodstock	A1
Worcester CB	A
Workington	A
Worksop MB	A
Worthing	A1
Wrexham (incl. Cefn)	A
Wroughton	A1
Wylam	A
Wymondham	A1
Yate	A1
Yeovil Borough	A1
York CB	A
Ystalyfera	A

* For Birkenhead, Liverpool and London the rates are :—Craftsmen, 4s. 10½d. ; Labourers, 4s. 4d. In the case of London the rate beyond the 12-mile radius is : Craftsmen, 4s. 10d. ; Labourers, 4s. 3½d. † Plus 4d. per working day. ‡ This is the County rate and applies except where higher grades are stated.

NOTE.—Carpenters and Joiners providing own tools when employed in establishments operating under the Supplementary Rules for Woodworking Factories and Shops receive 2d. per day ; when employed on other building industry work, 4d. per day.

WOMEN'S RATES.—In all districts throughout the country the rate of wages for women engaged in craft processes is 3s. 10½d. per hour. Women engaged on work other than craft processes, 3s. 6½d. per hour.

For Building Trade Wages in Scotland, see page 486



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TECHNICAL REVIEW

This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 153 of this issue. The form can be used for more than one inquiry.

1. Structural Repairs

The possibility of using HYDRAULIC PIT PROPS to give structural support when buildings undergo alteration was recently put to the test when the foundations of an old, but comparatively large, building had to be lowered by 4 ft. 6 in. The building was in use as offices for a newspaper and basically the contract was for the removal of all interior basement walls and the lowering of the existing floor to permit the installation of new printing presses. It was decided to experiment with hydraulic supports, and a trial batch of 25 props, averaging about 6 ft. 6 in. in height, was delivered on site. The equipment being standard, certain design characteristics had to be considered before installation and, as hydraulic props are required under mining conditions to yield at an end load of 20 tons, it was necessary to ensure that the weight on these props did not reach that figure when applied to a building.

Timber sleepers were placed in the floor on either side of the wall in question. Needle holes were cut at intervals along the wall ready to receive the small section rolled steel joists which would ultimately carry the weight of the wall. Timber baulks were then lifted into position on either side and the props inserted to carry these baulks. The RSJs used for needles were then threaded through the wall and carefully wedged to ensure that they remained in place and had an even bearing on the wall to be carried. The props were then pumped up to take the load, the wall was demolished and the whole remaining weight of the wall above carried on the props. It was estimated that the hydraulic support was quicker to erect and dismantle and lowered substantially the cost of supporting a beam when compared with the conventional steel tubular framework.

Dowty Mining Equipment, Ltd.,
Ashchurch, Tewkesbury, Glos.

2. Miscellaneous

The National Institute for Road Research of the Council for Scientific and Industrial Research, Pretoria (South Africa)—in collaboration with a commercial firm (Protea Holdings Ltd).—has evolved a novel instrument which should prove invaluable to engineers responsible for EARTHWORK CONSTRUCTION, especially that concerned with roads.

The device permits rapid measurement of the density and moisture contents of soils, both vital factors in the preparation of a road foundation. The CSIR states that about £5 million is spent every year on road foundations in the construction of bituminised rural roads in South Africa, and it is estimated that some £120,000 a year could be saved by using the new instrument.

The CSIR says further that the new meter irradiates a small test area with a radium beryllium isotope source, giving off neutrons and gamma-rays. For the measurement of moisture, the instrument relies on the fact that hydrogen slows down these neutrons and reflects them back. They are picked up by the instrument, counted and the result is displayed on a dial. To measure density, the instrument records the intensity of the gamma-radiation reflected from the soil.

Council for Scientific and Industrial Research,
Pretoria, Transvaal, South Africa.

3. Elevator Trucks

For handling comparatively light loads, such as sacks, a HAND WINCH ELEVATOR TRUCK has been developed that has a fast rate of lift. On different models, capacities varying from 150 lb. to 350 lb. can be accommodated with lifting heights ranging from 4 ft. to 10 ft. As a safety measure, when the winch handle is released the load automatically stops in position at any height without recourse to a brake or ratchet and pawl mechanism.

Powell & Co.,
Barry Port, Carms, South Wales.

4. Plastics

A recent addition to the plastic coated fabrics for WALL COVERING is 'Vynide,' a material which, in thicker grades, is already used in the car industry for seating and panel trim. It consists of a cotton-base fabric coated with pvc and, like most plastics, is easy to clean—hot soapy water and a cloth are all that is necessary. The surface will not scratch or stain and the colours and design will not fade. It is recommended particularly for schools, hotels and offices and also, because of excellent fire resistence, for interior decoration in cinemas, ships and aircraft.

Imperial Chemical Industries Ltd.,
Hyde, Cheshire.

5. Wall Finishes

An AGGREGATE, made up from natural granites, marble, stone chippings and natural spar, when used with a permanent waterproofer, is said to provide an ideal finish for curtain walling. It is applied by spray gun over the waterproof finish and is then given a sealing coat. The adhesive qualities of this process, which has been tested on many types of surfaces including glass, is outstanding.

Multispray Ltd.,
3 Rush Green-road, Romford, Essex.

Technical Publications

The use of polythene sheeting to prevent moisture penetration in concrete house-rafts is the subject of a booklet issued by BRITISH CELLOPHANE LTD., of 9 Henrietta-place, W1. A report shows that the type of concrete normally used in building can absorb up to 4 per cent of its own weight in water by capillary action, with the possible consequence of the breaking down of the raft in frosty weather. The booklet, which gives a full explanation of the functions of the polythene film dpc, is available free on application.

A New Mobile Tower Crane

Some Outstanding Achievements

NOW AND THEN in every decade a new machine is produced which introduces minor mechanisational revolution into building. Recent tools of this kind are the small diesel dumper, tractor shovels, hydraulic excavators, and the climbing and rail-mounted tower crane. Into this class of aid comes the Otus Kassbohrer KT 7000 tower crane, just introduced to the British market, which can be driven to a site, and provided there is a level place for the crane to stand, can be erected and at work in under half an hour.

This is a newcomer of a type which will become widely known and used (writes Mr. D. W. Llewellyn). With a load capacity ranging from 23½ cwt. at 16 ft. 6 in. radius to 8½ cwt. at 46 ft. radius, the KT 7000 is of a size which one would not expect to find in mobile form. Apart from the feature that this crane can be folded down (see illustration below) so that it is entirely carried on the lorry chassis without the need of any other vehicle to carry the jib or other parts, the crane also owes its mobility to its diesel power unit which makes it independent of a mains or generator supply. The machine has automatic braking and is driven entirely by shaft drive, power being transmitted through electro-magnetic clutches and worm gears to the hoist and derricking drums.

It is while the slow process of erecting brick load bearing walls is going on that it is often not economical to have an expensive tower crane standing by almost idle. With this mobile tower crane it is now possible for a site with *insitu* floor construction, or other constructions economically carried out by crane, to have the mobile tower crane brought in specially to carry out this work, and also to lift bricks and other material on to scaffolds or floors. Apart from *insitu* floor constructions the crane lends itself to the hoisting of pre-cast beams, roof trusses, etc., in fact almost any building material.

Working economy apart, it is, of course, far cheaper to erect one of these mobile tower cranes than it is to build a scaffold tower, bring a hoist to a site by road transport, and erect it.

A KT 7000 is in use in the Eastbourne area and, as an example of its mobility, the contractor concerned states that after completing the concreting of an inaccessable retaining wall late one afternoon the crane was used next day to place pre-cast beams on the second storey of a block of flats. At the completion of its work there, the mast was lowered and the machine was driven to a third site where the following day an *in situ* floor slab was concreted. That is to say, three sites were served on three successive days.

The KT 7000 tower crane mounted on a Leyland 'Hippo' chassis

The crane shown is mounted to an ex-WD Leyland Hippo chassis; a wide range of new or second-hand chassis will receive the crane. The sole concessionaires are the Otus Plant Co. Ltd., 16-20, South-st., Eastbourne.

Trade News

Royal Warrant

THE ROYAL WARRANT has been granted by Queen Elizabeth, the Queen Mother, to Trianco Ltd., Imber Court, East Molesey, Surrey, as manufacturers of domestic boilers.

Compliance with BSS

FORDHAM PRESSINGS, LTD., of Wolverhampton, announce that their new cistern, the 'Eterna,' complies fully with BSS 1125/1959.

Change of Name

BECAUSE OF EXPANDING activities the Tentest Fibreboard Co. Ltd. have re-registered as The Tentest Co. Ltd., Fiboard House, Oakleigh Gardens, London, N20, with effect from January 15, 1960. The company remains a subsidiary of Canadian International Paper Co. Ltd.

Modifications to Trestle

MODIFICATIONS have been introduced to the Multi-purpose Trestle, manufactured by Causeway Reinforcement, Ltd., for use on building sites, civil engineering work, etc., to allow a standard scaffolding board, 9 in. by 1½ in. vertical, to be used on edge as a cross member on all models, in place of a 3 in. by 4 in. timber which was not always available on site.

New Premises

THE PUBLIC RELATIONS department of The United Steel Cos., Ltd., has moved to The Mount, Broomhill, Sheffield, 10.

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ENGINEERING
AND
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PURPOSE MADE "SPECIALS"
TO ARCHITECTS' REQUIREMENTS

New House Journal

UNDER the title of 'The Grape Vine,' the Eastbourne builders, Walter Llewellyn & Sons Ltd., have just produced the first issue of their new house journal, which at first is to be a quarterly but may be published more frequently if the demand is forthcoming. The title was chosen because in the new journal the firm hopes to replace 'the unofficial grape vine which flourishes in every firm by an official one which will spread accurate but none-the-less interesting news.' 'The Grape Vine's' distinguished editor is Mr. S. Hearder, until his recent retirement director of the NFBTE.

New Price List

IN ACCORDANCE with the recommendations of the Building Paints Advisory Council, Denton Edwards Paints Ltd. of Abbey-road, Barking, Essex, have issued a new Trade Price list No. T260, February, 1960, which supersedes T259 dated July, 1958.

Paint Colour Card

SISSONS BROTHERS & Co. Ltd., of Bankside, Hull, have issued a new 'Sisco' colour card showing their full range of paints for wall finish and gloss colours.

ANNOUNCEMENT!

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UTRECHT – NETHERLANDS

5th–14th April 1960

Open from 9 a.m. to 5 p.m., closed on Sunday, 10th April

Architects and building contractors

visit the important Fair for building machinery and building materials, which will be held as part of the Technical Utrecht Spring Fair and which will occupy a nett stand area of 308.000 sq.ft.

The following groups wil be represented:

Building machinery,

road making equipment, machinery anc equipment for waterways construction and earth moving equipment: a.o. office sheds, hoisting apparatus, cranes, ladders, scaffolding, steps, winches, concrete making and processing machines, mechanical hammers, etc.

Building materials:

bricks, concrete and concrete products, bituminous products, building slabs, prefabricated constructional parts, hinges and ocks, hardware, woodconstructions, woods, insulating materials, plastic articles, steel and iron constructions, tiles, materials for road and waterways construction, etc.

For further information please apply to the Foreign Department, Royal Netherlands Industries Fair, Utrecht, Netherlands.

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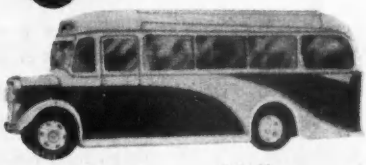

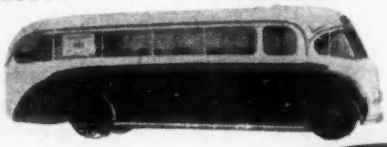

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News in Brief

Open Week at Brixton

FROM MONDAY, March 7, until Friday, March 11, Brixton School of Building will be open each day to visitors from 10 a.m. until 7.30 p.m. There will be displays of work on view and students will be working in studios, laboratories and workshops both at the main premises in Ferndale-road, SW4, and at the annexe in Barrington-road, East Brixton, SW9. Special arrangements are being made for parties of secondary school pupils to visit the college during this period in order to gain some knowledge of the training arrangements open to those who seek to make a career in building. On Tuesday evening, March 8, at 6.45 p.m., Lt. Col. G. W. Kirkland, vice-president of the Institution of Structural Engineers, will deliver a lecture on 'The Structural Aspects of Tall Building.'

Appointment

Mr. Norman Walsh, deputy building manager with St. Helens Corporation, has been appointed building manager to Barnsley Corporation.

Course on Timber

Dr. H. E. Desch, FRICS, is to hold a one-week course on Timber at Oxford from March 28 to April 2. Full details may be obtained from the Secretary at 11 Haymarket, London, SW1.

Council Cede to Builder

Seisdon Rural Council has now decided not to negotiate for land already bought for private development by the Birmingham firm of builders D. W. Findon and Co. Ltd. The firm's statement that it would fight any such decision which it asserted would be parallel with the Crichel Down case, was considered by the council. The chairman, Councillor G. A. Jeffries, said that it appeared that the council made a mistake in not buying the site last year because the price was too high. The council therefore approved the planning application by Findons.

Conference on Social Welfare

More than 600 delegates, representatives of industry, commerce, central and local government, trade unions, the churches, universities, and professional and voluntary bodies connected with social work, will meet in Bristol from April 10-13 at the Victoria Rooms, Clifton, Bristol, to study problems of the relations of people to the industrial communities.

The title of the conference, organised by the British National Conference on Social Work, is:—'People and Work: Co-operation for Social Welfare in Industrial Communities.' Further information from Miss N. Rice-Jones, 26, Bedford-square, London, WC1.

Central Heating

The Regional Council for Further Education for the South-West in conjunction with the Cornwall Education Committee has arranged a short course on modern methods of central heating for domestic and small premises. The course, which has been arranged to allow architects, quantity surveyors, builders and heating and ventilating engineers to meet and discuss the problem and the alternative methods available, will be held at the Cornwall Technical College, Trevenson, Pool, Redruth, on April 21 and 22. Further details may be obtained from the Secretary of the Regional Council at 12 Lower Castle-street, Bristol, 1. Registrations should be returned not later than March 18.

Sheffield's Housing Schemes

No one is more qualified to compile a history of the City of Sheffield Corporation's housing schemes than the man who has for 21 years been its first housing manager. Mr. Vincent M. Hughes, FAI, who retires in August after 50 years in the estates management profession, has written a clear and authoritative account of Sheffield's housing schemes from their inception. It tells of the early ambitious programmes, subsequently carried out, for the removal of insanitary and congested properties; the development of suburban housing at Winconbank on garden city lines; and more recently the development of estates at Manor, Longley, Edward-street, Basegreen, Hackenthorpe, Foxhill and Grenhill/Bradway. Mr. Hughes is to be congratulated on this concise record of an achievement in which he has played an active part.

OVERSEAS BUILDING

From Our Own Correspondents

AUSTRALIA (QUEENSLAND).—The Hon. G. F. R. Nicklin, MLA, Prime Minister of Queensland, has stated that negotiations have been completed with the Vacuum Oil Company for the building of a £200,000 oil terminal at Bundaberg. The State Cabinet are negotiating with Caltex Oil (Aust.) Pty., Ltd., for the establishment of an oil terminal at Urangan, near Maryborough.

AUSTRALIA (NEW SOUTH WALES).—Approval has been given for a £A5m., 35-storey hotel at Potts Point, Sydney. Mr. Stanley Korman, chairman of Chevron (Sydney) Ltd., who are building the hotel, has stated that full-scale construction will start immediately.

CANADA (BRITISH COLUMBIA). — John Laing and Son (Canada) Ltd. have secured the contract for the construction of a $C663,000 aggregate plant at Mary Hill, Coquitlam, for Evans, Coleman and Evans Ltd. The project comprises a new 50 ft. high crusher house with various ancillary buildings and above-ground concrete conveyor tunnels, 500 ft. and 360 ft. long respectively. The contract includes the installation of the crushers, conveyors and piping.

CANADA.—The British Newfoundland Corp. Ltd. is to construct a $25m. hydro power plant at Twin Falls, Labrador. . . . A $50m. pulp and paper mill is to be constructed by Alberta Paper Mills Ltd. in west-central Alberta. . . . The Sun Insurance Co. is to construct a new $2m. office building in Toronto, Ont. . . . The Federal Department of Transport is to construct a $10m. terminal building at Winnipeg, Manitoba. Completion is scheduled for 1961. . . . Canada Safeway Ltd. is to construct a $2.5m. distributing centre at St. James, Manitoba. Completion is scheduled for this year. . . .

CENTRAL AMERICA (PANAMA).—Mr. F. J. Erroll, MP, Minister of State, Board of Trade, told the London Chamber of Commerce on February 21 that no British firm had so far set up in the Panama Canal zone, although some agencies did exist. He said that there were some useful contracts to be obtained from the Panama Canal Authority itself despite compliance by foreign tenderers with the 'Buy American' Act. The Authority was embarking on a programme for widening the Canal and he was informed that this would present a useful opportunity for a British contractor. The Authority were disappointed that they did not receive a British tender for a new bridge which was to be built over the Canal.

GHANA.—The Industrial Development Corporation is planning the establishment of a paper mill at Beposo, near Sekondi in the Western Region, at a cost of £G1m.

MAURITIUS.—The Roberts Construction Co. (Central Africa) Ltd., have commenced construction work on the hydro-electric scheme. The British firm of Reed & Malik Ltd., of Salisbury, are also engaged on this project.

NIGERIA. — Construction of Western Nigeria's newest shopping centre has just begun at Ibadan. The completed centre will have a 25-storey office block, a department store, an arcade, a restaurant and a club with swimming pool.

NYASALAND.—Work is now in progress on a large contract for road and bridge work by Roberts Construction Co. (Cen-

tral Africa) Ltd. in collaboration with Messrs. Johnson & Duckworth. The contract includes the design and construction of five major bridges and a number of culverts.

PHILIPPINES.—Manila Customs Commissioner Eleuterio Capapas has informed shipping conferences that a government programme is underway to build bigger port facilities to avoid congestion, including Pier 5 and two additional warehouses.

SOUTH AFRICA.—A new £7m., ten-storey teaching hospital for the University of Stellenbosch Medical School is to be built at Parow, between Stellenbosch and Cape Town. The hospital will accommodate 1,190 beds in 40 wards, 22 major operating theatres and a total nursing and medical staff of over 1,000. Work is not expected to start for three years. A group of experts will shortly visit overseas countries to study special hospital departments.

SOUTH AFRICA.—Among the new buildings planned for Cape Town's foreshore is a parking garage to accommodate 400 to 500 cars with a heliport on the roof.

SOUTHERN RHODESIA.—Work has commenced on a large housing scheme at Bulawayo by the Roberts Construction Co. (Central Africa), Ltd.

SOUTHERN RHODESIA.—Bulawayo City Council has agreed on the siting of a £1,400,000 dam and aqueduct on the Inyankuni river, seven miles from the Ncema Dam and ten miles from Balla Balla.

SUDAN.—A consortium of British firms has secured a £6m. contract for a textile mill to be built at Khartoum for John Theodoracopulos, the Sudan/American textile firm. The civil engineering contractors are Marples Ridgway and Partners.

SWAZILAND.—Roberts Construction Co. (Swaziland) Ltd., a subsidiary of Roberts Construction Holdings Ltd., of South Africa, has been formed for the purpose of carrying out contracting building and civil engineering work in this rapidly developing territory.

TASMANIA.—Mr. Reece, the Prime Minister, has stated that a regional hospital to serve the Huon Valley will be sited at Huonville.

THE BAHAMAS.—At Freeport on Grand Bahama, the largest island in the colony, an industrial, commercial and residential area is being developed on a large scale. Many new industries have so far been attracted to the area and new buildings and engineering projects are essential for this development. Apart from housing the residential section will include hotels, restaurants, cinemas, shopping facilities and swimming pools. In addition to competitive advantages and special tax concessions, UK overseas trading corporations may expand their businesses at Freeport unrestricted by taxation on profits. No building or other kind of permit is required since the Grand Bahama Port Authority has the sole right to plan the layout and vary the development, subject only to proper provisions for health, sanitation and safety. The Authority will discuss projects at its London offices, 4 Upper Belgrave-street, London, SW1.

WEST GERMANY.—Bonn University is to build clinics and institutes costing £7,600,000 in the next few years.

SCOTTISH BUILDER

Multi-Lane Highway for Glasgow

GLASGOW CORPORATION has approved in principle the building of a multi-lane highway of 4½ miles, circling the inner city. The present plan is to complete the scheme in ten years, linking it with redevelopment of the areas involved. Thousands of houses and commercial properties will be acquired and demolished. Congestion of the central districts of Glasgow is at the root of this scheme. Professor Sir William Holford, Messrs. Scott and Wilson, Kirkpatrick and Partners, London, and Mr. J. F. Q. Switzer, Cambridge, have been appointed consultants to advise on the project which will be considered in May by the Secretary of State for Scotland.

Scottish Housing, 1959

THE NUMBER of new houses completed in Scotland last year was 27,293. This brings the number built since the war to 381,043. These have been erected by: Local authorities, 282,850; SSHA, 45,145; New Town Development Corpn., 9,977; private owners, 33,712; other housing associations, 1,434; Government departments, 7,925.

The figures are given in the Housing Return for Scotland for the final quarter of 1959 (HMSO, price 1s. 3d.).

The numbers completed since the war in the big cities are: Glasgow, 58,752; Edinburgh, 22,147; Aberdeen, 13,152; Dundee, 14,628.

Houses completed last year (27,293) showed a drop from 1958 when 32,170 were built. But the figures of houses on which construction began last year showed a rise—28,324 as against 26,548 in 1958. Analysis of the figures shows a big rise in the number of private houses on which work has started. These have increased from 3,786 (in 1958) to 5,336. The number of houses started for local authorities, the New Towns and the SSHA rose from 22,201 (in 1958) to 22,700. More than half the public authority houses for which tenders were approved in 1959 were of 3-apartments. The figures in percentages are: 3-apartment, 58.5; 4-apartment, 24.6; 2-apartment, 14.0; 5 or more, 1.5; less than 2, 1.4.

There has been a big rise in the number of applications approved for the conversion of houses by private owners with the assistance of Government grants. The number of houses in 1959 was 790 compared with 283 in the previous year. More houses were also converted by local authorities with the aid of grants.

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TEMPLE BAR 6251 (8 lines)

SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from February 2, 1959. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen, 4s. 9d.; Labourers, 4s 2½d.

For apprentices, the rates are:

Year	Percentage of Craftsman's rate	For week of 44 hours s.	d.
1st	25	52	3
2nd	33⅓	69	8
3rd	50	104	6
4th	66⅔	139	4
5th	75	156	9

For female labour, the rates are:

	s.	d.
Operatives on craft operations (at end of probationary period)	4	2½
Operatives on labouring operations (at end of probationary period) ...	3	8½

New Building

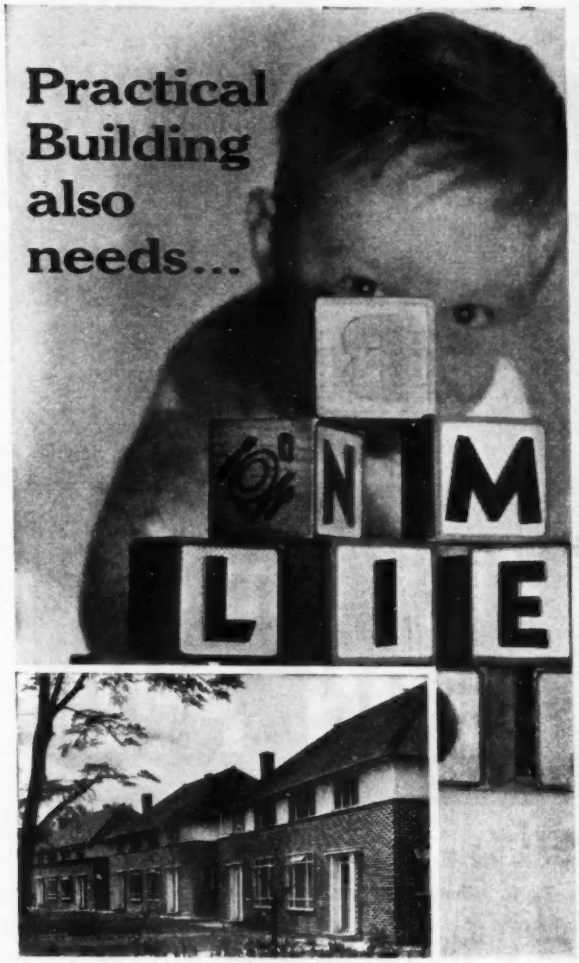
HADDINGTON.—A tender of £40,487 for a new prim. dept. at Knox Academy, Haddington, has been approved by the Scottish Education Dept.

INVERNESS CC.—Construction at Newtonmore of 70,000 gpd. slow sand filter and abstraction chamber and laying of 3 and 4in. dia. asbestos-cement pipes. Applications to County Water E, County-bldgs., Inverness.

KIRKCALDY.—George Wimpey & Co. Ltd. applied at Kirkcaldy Dean of Guild Court recently for permission to erect 22 five-apartment semi-detached, eight four-apartment semi-detached, 12 five-apartment detached and 3 four-apartment detached houses at Dunnikier private estate development.

ROSS & CROMARTY CC.—Laying and jointing of approx. 11½ miles of small dia. asbestos-cement pipes with construction of loch intake and three small tanks in Badachro-Port Henderson area. Applications to County Water E, Burn-pl., Dingwall. Site inspection at Badachro Post Office at 11 a.m. on March 8.

SHETLAND.—Contract worth about £85,000 for school building in Shetland is to be shared by R. Pert & Sons, Montrose, who will undertake building construction and G. N. Haden, Aberdeen, who will be responsible for central-heating installations. The contract covers improvements at Scalloway sch. and erection of new sch. and schoolhouse at Voe.



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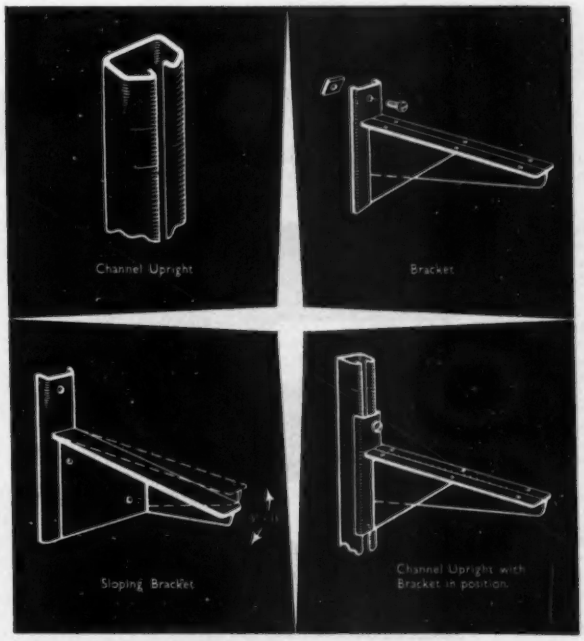

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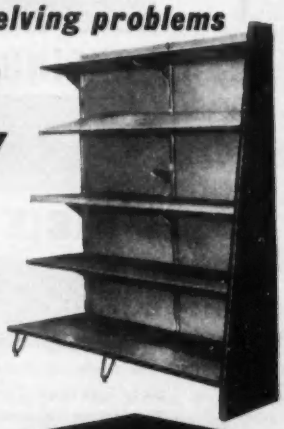

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THE BUILDER CONSTRUCTION NEWS

Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those preceded by the symbol (A) are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. The symbol (R) preceding the entry indicates that applications must be received by this date.

BUILDING

MARCH 9

(AR) BRIERLEY HILL UDC.—(1) 34 houses at School-st., Pensnett (scheme 'D'), and (2) 22 houses and one lock-up shop at Sheffield-st., Quarry Bank (scheme 'G'). A & Housing Director. Dep. £2 2s.

(AR) LEEDS REGIONAL HOSPITAL BD.—Fixed price tenders for re-organisation of laundry at Southmoor Hospital, Hemsworth, A to Bd. Dep. £2 2s. Tenders by April 7.

MARCH 10

(AR) SOUTHEND-ON-SEA CBC.—Erection of central bus garage, London-rd. Boro' A.

MARCH 11

(AR) BLACKBURN CBC.—Extensions to Witton Park sec. mod. sch. Boro' E. Dep. £2 2s.

MARCH 12

(AR) ESSEX CC.—(1) Further accommodation at St. Osyth's Training College, Clacton, and (b) assembly hall and kitchen at Purleigh CP sch. County A.

(AR) ESSEX CC.—Firm price tenders for alterations and additions at Laindon Health Services Clinic. County A.

(AR) ESSEX COURT OF QUARTER SESSIONS & ESSEX CC.—Firm price tenders for:—(a) Six police houses at Chatteris-ave., Harold Hill. (b) Four police houses at Rosslyn-ave., Harold Wood. (c) Six police houses at Basildon New Town. County A (separate applications).

MARCH 14

(A) SCARBOROUGH BC.—Fixed price tenders for 24 flats at Foxton's Farm, Scalby-rd. Boro' & Water E. Dep. £2 2s.

MARCH 16

(AR) CHELMSFORD BC.—58 flats, etc., at Melbourne-ave. Boro' E&S.

(AR) LEEDS REGIONAL HOSPITAL BD.—Fixed price tenders for alterations to laundry at Southmoor Hospital, Hemsworth. A to Bd., Park-parade, Harrogate. Dep. £2 2s.

(A) WALSALL CBC.—Fixed price tenders for erection and completion of jun. dept., Hatherton-la., CP sch. Boro' E&S. Dep. £2 2s.

MARCH 18

(A) DOVER BC.—Fixed price tenders for 40 housing units with site and ancillary works at St. David's-ave., Aycliffe. Boro' E. Dep. £2 2s.

MARCH 21

(A) BASINGSTOKE BC.—223 dwellings and 126 garages at South Ham estate. Boro' A. Dep. £2 2s.

(A) WALLASEY CBC.—Extensions and additions at Egerton Grove sch. Boro' A.

MARCH 23

(A) CARDIFF CITY C.—Fixed price tenders for site clearance, playing fields and site layout for proposed teacher training college at Cyncoed. City A. Dep. £2 2s.

(A) WALTHAMSTOW BC.—Public convenience at Willow-walk and St. James's-path. Boro' A, E&S. Dep. £2 2s.

MARCH 28

(A) BROWNHILLS UDC.—18 houses at High-st., Clayhanger. E&S. Dep. £2 2s.

(A) FINCHLEY BC.—Small public convenience at Arden playing fields. Boro' E&S. Dep. £2.

(A) HARPENDEN UDC.—12 cottage flats and six traditional houses at Batford (South) housing estate. C. Dep. £2 2s.

MARCH 29

(A) LEYLAND UDC.—Fixed price tenders for 22 garages at Wade Hall estate. E&S. Dep. £2 2s.

MARCH 31

(A) MANSFIELD BC.—Branch library at Ladybrook-la. Boro' E&S. Dep. £2 2s.

APRIL 1

(A) SALFORD CITY C.—Firm price tenders for 339 flats and 28 maisonettes, with services, roads, etc., at St. Matthias clearance area No. 2 (part 1), Silk-st. City E&S. Dep. £5 5s.

(A) WINDERMERE UDC.—(a) Roads and sewers, and (b) 37 houses at Droomer Stile estate. S. Dep. £3 3s. (each contract).

APRIL 2

(A) HAVANT & WATERLOO UDC.—Fixed price tenders for 20 aged persons' flats at Forest-end, Waterlooville. E&S.

STROUD UDC.—108 flats, 29 houses, 25 old people's bungalows, one communal hall and warden's flat, two shops, each with three-bedroom flat over, and 30 garages, etc., at Lower Farmhill site, Paganhill. C. Dep. £5 5s.

APRIL 4

(A) BRADFORD CITY C.—89 dwellings at Holme Wood estate. City E&S. Dep. £2 2s.

(A) CARDIGANSHIRE CC.—Erection of CP sch. at Comminscoch, nr. Aberystwyth. County A. Dep. £2 2s.

(A) CHESTER-LE-STREET RDC.—140 dwellings (approx.) at Pelton. Council architect, F. Bowman, Estate Office, Great North-rd., Birtley, Co. Durham. Dep. £2 2s.

(A) STOURBRIDGE BC.—27 flatlets at Prescot-rd. Boro' E&S. Dep. £2 2s.

(A) TUNBRIDGE WELLS RBC.—24 dwellings at North-st. area. Boro' S & Water E. Dep. £2 2s.

(A) WORCESTER CITY C.—65 dwellings at Moor-st., development area. City E&S. Dep. £3 3s.

APRIL 8

(A) NEW SARUM CITY C.—Fixed price tenders for 40 houses, 24 flats and 11 bungalows, with outbuildings, etc., at Bishopdown estate, Salisbury. City E.

APRIL 12

(A) BRIGHTON CBC.—Fixed price tenders for 1st stage of College of Arts and Crafts. Boro' E&S. Dep. £3 3s.

APRIL 13

(A) NORTHAMPTON RDC.—32 bungalows, 12 houses and three club rooms on various sites. R. J. Miller, 1 Chayne Walk, Northampton, architect. Dep. £3 3s.

NO DATE

(A) BRISTOL CITY C.—12 dwellings for old people at Ludlow-rd., Horfield. City A.

(A) NEWMARKET UDC.—9 houses and 12 garages at St. Wendred's-way, Exning. P. D. Lees, Council Offices. Dep. £2 2s.

SERVICES, PAINTING, MATERIALS, ETC.

MARCH 12

(AR) SWANSEA CBC.—Electrical installation at Mynyddbach county sec. sch. for girls. Boro' A. Dep. £5.

MARCH 14

LITTLEBOROUGH UDC.—External painting of 122 houses at Dearnley estate/Smithy Bridge estate. Housing Mgr.

MYNYDDISLWYN UDC.—Materials. E&S.

MARCH 16

KEARSLEY UDC.—Materials. S.

(AR) SCUNTHORPE BC.—Fixed price tenders for:—(a) Heating and ventilating installations, and (b) hot and cold water services at new Municipal Offices and Council Suite. TC.

MARCH 17

(A) DUNSTABLE BC.—Exterior redecoration of:—(a) 102 dwellings at Beecroft estate, and (b) 118 dwellings at Downside estate. Housing Estates Mgr. Dep. £1 1s. (each contract).

(AR) WIMBLEDON BC.—Painting of street lighting standards, etc. Boro' S. Dep. £2 2s.

MARCH 18

(A) SUTTON AND CHEAM BC.—External painting of:—(a) 84 houses at Dibdin-rd., area, Sutton; (b) 51 houses and flats at Benhill Wood-rd., area, Sutton, and Gander Green-la., area, Cheam, and (c) 48 flats and 56 garages at Longfield-cres. and Homefield-gdns., Tadworth. Housing Mgr., 24 Cheam-rd., Sutton. Dep. £1 1s.

(AR) WORCS. CC.—Materials. County A.

MARCH 21

(A) RICHMOND (Surrey) BC.—External painting and minor repairs to 128 houses in Ham area. Boro' E&S.

MARCH 23

(AR) WANDSWORTH MBC.—External painting works at Wimbledon Park estate, Albert-dr. (169 dwellings) and Flowersmead estate, Upper Tooting Park (87 dwellings). TC.

MARCH 26

(A) EAST GRINSTEAD UDC.—Fixed price tenders for:—(a) Stripping, felting, battening and re-tiling in plain concrete tiles of roofs of 18 houses at Brooklands estate. (b) External painting of 92 dwellings at various sites, sub-divided into two groups of 61 and 31, and also the internal redecoration of Stonequarry Hall; contractors may tender for the whole or one or more of these three groups. S. Dep. £2 2s. for (a) and (b).

(A) EAST GRINSTEAD UDC.—Demolition and site clearance at West-st. S.

(A) UXBRIDGE BC.—External painting of 498 dwellings at Hillingdon-Harefield-Uxbridge. Boro' E, S&E. Dept. £2 2s.

MARCH 29

(A) READING CBC.—Firm price tenders for internal redecoration of Park-la., Emmer Green and George Palmer prim. schools. Boro' A.

APRIL 11

NEWCASTLE AND GATESHEAD JOINT FIRE SERVICES COM.—(1) Heating, hot and cold water services and ventilating installations, and (2) electrical installation for new divisional fire station at Dryden-rd., Gateshead. City A.

NO DATE

(A) JARROW BC.—Materials.—Boro' E.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

MARCH 14

BASINGSTOKE BC.—1,435 sq. yd. of precast paving, 1,330 sq. yd. of tarmacadam paving, and landscaping and grass seeding of 3,660 sq. yd. of verge and open spaces, etc., at St. Peter's-rd. district. Boro' S. Dep. £2 2s.

CARDIFF CITY C.—Fixed price tenders for Llanedeyrn-rd. improvement, comprising 8,000 sq. yd. of carriageway, 500 yd. of 12 and 39in. dia. SW sewers, etc. City S. Dep. £2 2s.

NEWCASTLE-UNDER-LYME BC.—625 lin. yd. of 6 x 5in. concrete kerbing; 2,100 sq. yd. of machine-laid tarmac surfacing; 900 sq. yd. of footpath surfacing, and 500 lin. yd. of concrete edging. Boro' E&S.

MARCH 18

HAVERFORDWEST RDC.—Fixed price tenders for extensions to existing sewage works at Herbrandston. E&S.

MARCH 19

DERWENT RDC.—Fixed price tenders for 2,900 lin. yd. of 6, 9 and 12in. dia. rc pipe sewers and manholes etc., 470 lin. yd. of 5in. dia. asbestos-cement pumping main, and construction of pumping station and sewage disposal works at Dunnington, York. Fairbank & Son, Ccl's. constg. engrs., The Gables, 62a Bootham, York. Dep. £3 3s.

MARCH 21

CIRENCESTER UDC.—Fixed price tenders for construction and maintenance of approx. 2½ miles of 6 and 8in. dia. spun-iron water mains, etc., at South Cerney and adjacent villages. Leonard Blizard, Ccl's. engrs., 59 Tufton-st., SW1. Dep. £3 3s

SOUTHAM RDC.—(a) 1,300yd. of 6in. dia. spun-iron sewers and relevant manholes; (b) sewage disposal works, etc., and (c) house connections comprising Shotteswell Sewerage. W. Herbert Bateman & Ptnrs., constg. engrs., Chesterfield-hse., Bathealton, Bath. Dep. £5 5s.

MARCH 22

ELLESMERE PORT BC.—Roads and sewers for town centre, comprising 21,200

sq. yd. of carriageway, 8,200 sq. yd. of footpatns and 2,500 lin. yd. of 6 to 24in. dia. sewers. Boro' E&S.

MARCH 26

LUTON RDC.—1,200 yd. of 6 in. stoneware or concrete pipe sewers, etc., two small brick-built pumping stations, and 3,500 lin. yd. of 4in. asbestos-cement pumping main, for Tilsworth Main Drainage. E&S. Dep. £2 2s.

MARCH 28

CARMARTHEN CBC.—Construction of small pumping station, with laying of approx. 4,500 lin. yd. of 9 to 15in. dia. concrete pipes, 860 lin. yd. of 9 to 18in. dia. steel pipes laid above ground on concrete piers, and 550 lin. yd. of 4in. dia. Cl rising main. Thomas & Morgan & Ptnrs., Ccl's. constg. engrs., 23 Gelliwastad-rd., Pontypridd. Dep. £5 5s.

APRIL 1

(A) HOLYWELL UDC.—Fixed price tenders for roads, sewers and water mains (stage 2). E&S. Dep. £2.

APRIL 2

MELFORD RDC.—Fixed price tenders for 3,100yd. of 4in. asbestos-cement water main at Fenstead End, Boxted. Elliott & Brown, Ccl's. constg. engrs., Stanley-hse., Pelham-rd., Nottingham. Dep. £4 4s.

APRIL 8

GREAT OUSE RIVER BD.—Extension of western training wall of River Great Ouse, King's Lynn. Sir M. MacDonald & Ptnrs., constg. engrs., 72 Victoria-st., SW1. Dep. £5 5s.

MAY 5

LANCASHIRE CC.—(1) 11.3 miles of motorway, including 32 bridges, and alterations to side roads, and (2) 14.8 miles of motorway, including 40 bridges, and alterations to side roads for Birmingham-Preston Motorway. County S & Bridgemaster. Dep. £50 (each contract).

STAFFORDSHIRE CC.—Construction of seven miles of motorway and two-thirds of a mile of dual carriageway link road for Birmingham-Preston motorway. C. Dep. £50.

GENERAL BUILDING WORK (LONDON)

LAMBETH. — Housing Development. — MBC approved layout plan prepared by Director of Housing for 96 flats, with seven lock-up garages and open car parking space, at Binfield-rd. and South Lambeth-rd.: MBC propose that a site at Binfield-rd. and Lansdowne Way be developed partly by erection of dwellings and partly by construction of building works depot, yard, stores, estate offices and caretaker's flat.

LONDON.—Flats.—Planning dept. of LCC has under its consideration a proposal to build a block of flats, with twin towers 100ft. high, over South Kensington Station. Stafford & Pollard, Princes-st., Hanover-sq., W1, are the architects.

LONDON.—Store Extension.—A six-storey extension to the premises of Swears and Wells at Oxford-circus, extending westwards to John Prince's-st., is proposed. There will be a shop on the ground floor, with showrooms and offices above. The building, costing £200,000, will conform to Crown Estate rules preserving the unity of Regent-st. The architects are Alister MacDonald & Ptnrs., Bedford-st., Strand.

LONDON.—Office Development.—Provestment Ltd., 82/90 Seymour-pl., W1, are to erect a six-storey office building of 20,000 sq. ft. at Carnaby-st., W1. Veal & Saunders are the quantity surveyors. Bills of quantities are now available to contractors interested in tendering.

LONDON.—Flats.—A block of flats—350ft. tall with 35 floors—may be built at Sloane-gdns., south of Sloane-sq. Work will not commence for some time, and only outline plans have been put before the LCC. The scheme would involve the demolition of the Royal Court Theatre. The overall scheme, which will cost millions, includes a two-floor shopping arcade in Sloane-st. and a 2,000-car garage on the north side of the Peter Jones' store. The architects are J. Douglass Mathews & Ptnrs.

WOOD GREEN.—Redevelopment Plans.—Boro' E submitted plans to BC showing proposals for the redevelopment of Williams-gr. site, comprising flats and garages.

Contracts Placed

We are glad to receive from architects and quantity surveyors for publication details of contracts placed to the value of £20,000 or over. Such information should reach the Editor as soon as possible after the contract is signed. Names of the architect and other consultants associated should be given.

(PROVINCIAL)

ALNWICK.—Northd. CC to erect new girls' grammar sch. at Alnwick to plans by County Architects' dept., County Hall, Newcastle on Tyne.

BARNSLEY.—Plans submitted to BC for club premises at Wellington-st./Wortley-St. for Barnsley Radical and Liberal Club, and church hall at Pontefract-rd., Lundwood, for Rev. P. J. Reeves.

BARROW IN FURNESS.—BC to erect new crematorium.

BIRKENHEAD.—Plans for two blocks of three-storey flats nr. New Chester-rd./Woodward-rd. approved by Housing Com.

BLACKPOOL.—BC propose food technology dept., and hotel and catering sch. at Technical College, est. cost £100,000 and £51,000, respectively: R. Fielding & Son (Builders) Ltd., Stanhope-rd., propose block of offices at Depot-rd.

BLANDFORD (Dorset).—MH&LG approved erection of 40 houses and site works at Pimperne, costing £74,708.

BLAYDON ON TYNE (Co. Durham).—UDC arranged to sell seven acres of land to Churchill Gear Machines for works extensions.

BOLDON.—UDC plans for 102 houses at Wellands-la. approved by planning auth: Wilkinson Brothers, 60 West-st., Gateshead, to erect 24 houses at Woodland-rd., Marshall & Tweedy, 36 Blackett-st., Newcastle on Tyne, architects.

BOLTON.—A. D. Primrose propose 64 sd bungalows at Torridon-rd./Carron-gr./Lovat rd./Rannoch-rd.

BORDER (Cumberland).—RDC Surveyor, W. Skerry, to prepare plans for further extensions at Houghton sewage works to cope with impending housing development schemes: Mr. W. Jackson, of Houghton, intends building 250 to 300 houses in area in near future.

BRADFORD.—A. Waite & Son, 66 Wibsey Park-ave., propose residential development at Northfield-rd., Wibsey.

BRAINTREE.—RDC to build 157 houses this year.

BURNLEY.—BC propose increasing accommodation at Wennington Hall Boarding special sch. for maladjusted pupils.

BURY.—Irwell Valley Water Bd. propose re-building offices at Parson-la. Work to begin in July.

CHADDERTON.—UDC propose 75 houses for 1960 programme.

CHAPEL (Derbys).—RDC propose housing development on one acre (approx) at Meadow-la., Doves Holes.

CHEADLE.—RDC approved plans for residential development at Hollington-rd., Back-la. and Gorsty Hill-la., Upper Tean, for Mrs. C. Hawley, 16 bungalows at New-ave., Uttoxeter-rd., Draycott, for W. D. Cooke & Co. Ltd., 26 bungalows at Cheadle-rd., Forsbrook, for Alsagar Development Co. Ltd., and 26 bungalows at Caverswall-rd., Weston Coyney, for Elsby Bros.

CHEADLE (Staffs).—RDC propose development of eight acres for housing at Upper Tean : EC propose alterations and additions at Cellerhead sec. mod. sch.

CHESTERFIELD.—TC propose redevelopment of Town Centre : EC propose nine-storey block for College of Technology. Work to commence shortly.

CUDDINGTON.—PC to request Northwich RDC to build 16 bungalows at Sandiway.

DARLINGTON.—Edgar Lawson, Ltd., Alliance-wks., Albert Hill, Darlington, to erect 76 houses at Yarm-rd., St. Herbert's-gdns. and Burnip-cres.

DURHAM.—CC to spend £158,000 on extensions and alterations at Ryhope Robert Richardson grammar sch. County A is G. R. Clayton.

EASINGTON.—Plans being prepared for open-air electrically heated swimming pool at Grimdon Dene. RDC to consider details of scheme—costing about £24,000—shortly.

EAST ELLOE.—RDC to build 68 houses during 1960.

ESTON.—UDC to borrow £23,387 for construction of sewer and ancillary works at Church-la.

GLENDALE.—Plans being pepared by CWS Architects' Dept., 90 Westmorland-rd., Newcastle on Tyne, for an egg-grading station at Wooler.

GOSFORTH.—Prof. J. S. Allen, King's College, Newcastle on Tyne, preparing a report for UDC on question of extending town's shopping facilities.

HASSOCKS.—Cuckfield RDC granted outline planning permission to Montague Group of Companies for 71 flats at Downs Hotel, Hassocks.

HEANOR.—UDC propose erection of swimming pool at Newlands.

HEBBURN.—Plans approved for alterations and additions to Hebburn Trades and Labour Club, Argyle-st. R. Collins, St. Hilda-st., South Shields, architect.

HERTS.—CC agreed to the building of new divisional police station at Campus, Welwyn Garden City, at cost of £110,000.

HEYWOOD.—Lancs. EC propose erection of new prim. sch.

HYDE.—TC seek loan for 72 houses at Wych Fold development scheme, est. cost £144,000: EC propose new county prim. sch. at Newton.

MABLETHORPE & SUTTON.— W. G. C. Hammond Ltd. granted permission from General Purposes Com. of UDC to proceed with 'holiday' estate at High-st., comprising 230 bungalows. Est. cost £300,000.

MANSFIELD.—BC propose 124 dwellings during 1960, extensions to central library premises and erection of new branch library at Ladybrook: BC approved plans for 57 houses and 61 bungalows at Fairhome-dr./Broomhill-la. for Scientific Building Contractors Ltd.

MICKLEOVER (Derbys).—PC proposes erection of swimming bath and community centre at Station-rd.

MIDDLESBROUGH.—Doffman & Leach, 17 Wolverhampton-rd., Stafford, are archi-

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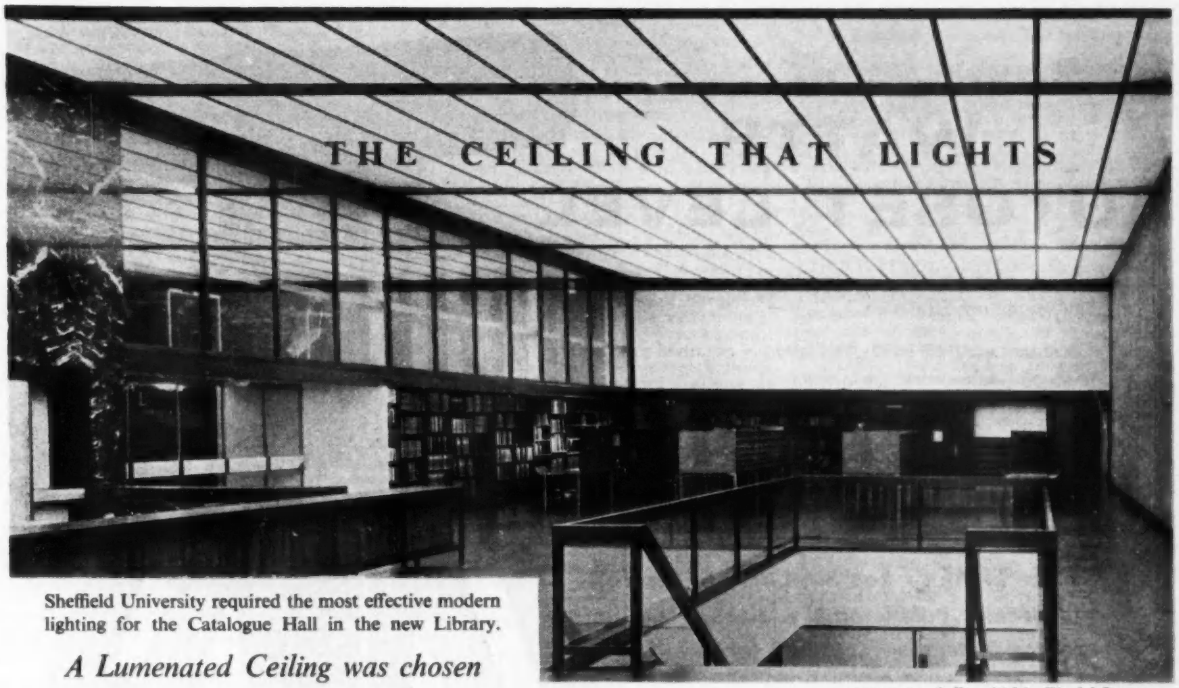

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tects for proposed alterations and additions at Linthorpe-rd. for Globe & Sikpson Ltd.: Middlesbrough Co-op Society Ltd. to carry out considerable extensions to their Emporium at Linthorpe-rd.

NEWCASTLE.—Northd. CC propose new town of 16,000 at North Killingworth, north-east of Newcastle city centre.

NEWCASTLE ON TYNE.—S. N. Slipper, Ed.A., Northumberland-rd., Newcastle on Tyne, prepared plans for additional classrooms at Shieldfield-avenue prim. sch, for EC: Arthur & Kirkup, 13 Swinburne-st., Gateshead, are architects for wholesale warehouse and showroom at Thornton-st. for Waterloo House (Newcastle) Ltd.: The Mangus Flooring & Ashphalt Co. Ltd., Sandyford-sq., Newcastle, propose offices and warehouse at Fisher-st. to plans by E. Forrester, 27 Wingrove-rd., Newcastle 4.

NEWCASTLE UNDER LYME (Staffs).—BC propose new covered market and erection of 294 houses during 1960.

NOTTINGHAM.—EC propose assembly hall and school meals accommodation at Dunkirk jun. and infants' sch. £20,000 est.

PETWORTH.—West Sussex CC propose six-class instalment of Petworth CoE (controlled) prim. sch. as part of 1960/61 building programme. Est. cost £50,000.

RINGWOOD & FORDINGBRIDGE (Hants).—RDC to negotiate for land at The Shallows, Breamore, for housing purposes and to seek outline planning consent.

ROCHDALE.—BC to prepare sketch plan for bungalows at Albert Royde-st.: BC to erect new changing rooms at Firgrove for Rochdale Playing Fields Assn., est. cost £22,000.

SALFORD.—City C approved £8m. development scheme for Broad-st. area, with shopping precinct nr. Church-st.

SALFORD.—BC propose extensions to Royal Technical College and Peel Park Technical College: EC propose new hostels at Royal Technical College.

SKIPTON.—RDC propose housing development at Brackenley-la., Embsay.

SLEAFORD.—New block of offices for Sleaford CC, est. cost £33,400, may be built at Lollycocks Field.

SOUTHAMPTON.—TP Estates Com. to be asked to consider reservation of site or sites for exhibition hall and municipal theatre proposed by Entertainments Com.

SOUTHPORT.—A 15-storey 'skyscraper' may be built on former Forum Cinema site at Lord-st., Southport, outline scheme for site from firm of Liverpool developers approved by Southport TP & Building Com.

SOUTH SHIELDS.—EC selected a site at Westoe-dr. for hostel for students at Marine & Technical College.

STOCKTON ON TEES.—J. W. Cameron & Co. Ltd., Lion Brewery, West Hartlepool, to acquire premises at Havelock-st. for extending the 'Royal Hotel': Detailed plans approved for garage, workshops, showroom and filling station at junction of Church-rd. and Commercial-st. for Minories Garages, Jesmond, Newcastle on Tyne, R. Cowan, 20 Finkle-st., Stockton, architect: Corpn. TP Com. deferred consideration of scheme by Aycliffe Properties Ltd., Newton Aycliffe, for four-storey office block, filling station and showrooms at Harlington-rd./Dovecot-st.

TYNEMOUTH.—TC propose commencing work during 1960/61 on construction of traffic roundabout at junction of Rake-la. and Preston North-rd.: J. H. Rogers, bldr., to erect joiners' shop, offices, garage and showroom: Wm. Stockdale, 73 Howard-st., North Shields, prepared outline scheme for 33 houses at Kimberley-ave. for J. H. Rogers: Plans being prepared for converting laundry into x-ray dept. for Newcastle Hospital Bd., G. H. Gray & Ptnrs., Camden-st., North Shields, architects: Cussins (Contractors) Ltd., The Drive, Gosforth, negotiating with TC for purchase of land at East-st., Tynemouth, for multi-storey flats, shops, restaurant, garage and filling station.

WADEBRIDGE.—RDC to build 109 dwellings as their 1960/61 housing programme.

WHISTON.—Planning and Development Com. approved plans for 37,500 sq. ft. extension to Eccleston works of Triplex Safety Glass Co. Ltd.

TENDERS

(A) Denotes *accepted*.
(PA) Denotes *provisionally accepted*.
(RA) Denotes *recommended for acceptance*.
(AM) Denotes *accepted subject to modification*.
(GD) Denotes *accepted subject to approval by appropriate Government Department*.

BILLINGE (Lancs).—40 dwellings at Beacon-rd., Billinge, for UDC. (A) G. & J. Seddon Ltd., £66,341 (in lieu of withdrawn tender).

BIRMINGHAM.—Construction of new carriageways and footways from Shadwell-st. to Upper Priory, including incidental works at Snow Hill, Bath-st. and Weaman-st., with foul water sewers. (A) C. Bryant & Son Ltd., £150,000.

BLAYDON.—30 aged persons' bungalows and two-storey building at Smailes Farm site, Rowlands Gill, for UDC. (A) Direct labour, £28,792.

BRADFORD.—New 10-12-storey building as phase one of new Bradford Institute of Technology for Sites and Works Com. of Corpn. W. Clifford Brown, architect. Rex Proctor & Ptnrs., Bradford, 5, quantity surveyors. (GD) Higgs and Hill Ltd. Est. cost £1,650,000.

BRISTOL.—Two five-storey blocks of flats at Barton Hill for City C. (A) Stone & Co. (Bristol) Ltd., £155,896.

CARDIFF.—Third instalment of Llandaff Technical College, Western-ave. for City C. C. Lockton, quantity surveyor. (A) Direct labour, £177,965.

CHESTER.—Roads and sewers, etc., at Blacon Camp site for City C. (A) Percy Bilton Ltd., £84,757.

COLCHESTER.—59 houses and 16 flats at Greenstead estate, for TC. (A) Direct labour, £99,398.

COLCHESTER.—223 soldiers' married quarters at three estates off Layer-rd. Colchester, for War Dept. (A) T. J. Evers, Ltd., £500,000.

CONNAH'S QUAY.—Swimming bath and assembly hall for UDC. J. G. L. Poulson, 29 Ropergate, Pontefract, Yorks, architect. (A) Fredk. Clark & Sons Ltd., 191 Heyworth-st., Liverpool 5, £126,888.

DURHAM.—Aged persons' hostel at East Boldon for CC. (A) Castle Structures (Boldon) Ltd., 12 New Bridge-st., Newcastle-on-Tyne, £52,451.—Erection of fire station at Crook for CC. (A) Lax & Sons, West-rd., Crook, £11,772.

FARNBOROUGH.—Completion of new shopping and commercial area, North Camp, Farnborough, Hants., for Farnborough Investment Co. A. George, architect. (A) Kyle Stewart (Contractors) Ltd. Est. cost £500,000.

HARTLEPOOL.—56 houses in King Oswy-dr. area for TC. (A) Direct labour, £73,758.

LAMESLEY.—New marshalling yard at Lamesley for British Transport Com. A. Dean, constg. engr. (A) Mitchell Construction Co. Ltd., Peterborough. Est. cost £45,000.

LEEDS.—Two blocks of 10-storey flats at Oldfield-la., Wortley, two blocks at Wykebridge, Killingbeck, and one block at Raynville-rd., Bramley, for City C. (RA) Reema Construction Ltd., £527,340.

LEICESTER.—Following for City C:—78 dwellings at Evington House estate. (RA) Rudkin & Co. Ltd. £88,311.—58 dwellings at Stocking Farm estate. (RA) Sheriff & Co. (1943) Ltd., £74,091.

LIVERPOOL.—Following for City C:—68 flats and 12 garages at Canterbury-st. (A) Direct labour, £125,070.—12 dwellings at Aigburth-dr. and 23 dwellings at Heath-rd./Greenhill-rd. (A) R. J. Barton & Sons Ltd., Altcar-rd., Formby, £20,439 and £39,188, respectively.—Communal laundry and baths at St. Domingo-rd. (A) Hale & Williams Ltd., 1 Heather-st., Liverpool 4, £50,477.

LONDON.—Stage 8a of Elm Park-gdns. conversion scheme for Chelsea MBC. (RA) W. J. Marston & Sons Ltd., SW6, £34,684.

LONDON.—86 dwellings and 23 garages at Southend-cres. for Woolwich MBC. (A) Direct labour. Est. cost £197,823.—Block of offices at Byward-st and Seething-la. for The City of London Real Property Co. Ltd. Howard Fairbairn & Ptnrs., Piccadilly, W1, architects. E. Howard & Ptnrs., quantity surveyors. W. V. Zinn & Associates, constg. engrs. (A) Higgs and Hill Ltd., £390,000.

(GD) LONDON (Air Ministry).—Contracts to the value of £500 or over for week ended February 26: *Building work:* Coningsby, Lincs., M. J. Gleeson (Contractors) Ltd., 816-822 Chesterfield-rd., Sheffield 8; Elmdon (Birmingham) Airport, Wilson Lovatt & Sons Ltd., Clarence-st., Wolverhampton, Staffs.; Leconfield, Yorks., J. Mather & Son Ltd., Leads-rd., Stoneferry, Hull, Yorks.; Scampton, Lincs., Ellis Thompson & Co. Ltd., James-st., Louth, Lincs. *Modifications to fuel installations:* Sculthorpe, Norfolk, Simmons & Hawker, Ltd., Southdown-wrks., Point Pleasant, Wandsworth, SW18.

(GD) LONDON (British Railways).—Following contracts have been let by London Midland Region with:—The Butterley Co. Ltd., Butterley, nr. Derby, for (a) supply fabrication and delivery of steelwork for Bridges Nos. 6 and 43 on Acton and Bacup Branches respectively; (b) supply, fabrication, delivery and erection of steelwork for Bridges Nos. 1/83 and 1/85 on Hampstead Junction Line; (c) supply, fabrication and delivery of steelwork for superstructure of new bridge over Canal at New Freight Terminal, Stoke-on-Trent.—Leonard Fairclough Ltd., Chapel-st., Adlington, Lancs., for (a) new freight terminal at Watford Junction; (b) construction of new bridge on Market Drayton branch nr. Bridge No. 27, over Birmingham/Preston Motorway, for MoT; (c) reconstruction of Bridge No. 94 between Speke Junction and Edge Hill, Liverpool, to accommodate widening of Smithdown-rd. for Corpn. of Liverpool; (d) reconstruction of Booking Hall sub-structure at Ditton Junction and also reconstruction and widening of adjoining Bridge No. 65.—Edward Wood & Sons Ltd., Park-st., Derby, for extension to electric shop at locomotive works, Derby.

(GD) LONDON (British Railways).—Contracts placed by Eastern Region:—Samuel Butler & Co. Ltd., Bilton Way, Brimsdown, Enfield, Middx., repairs to underline bridge No. 1358 between Cambridge Heath and London Fields; repairs to Ellingfort Road underline bridge No. 1362 between London

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(GD) LONDON (War Dept.).—Contracts placed for week ended February 19:—*Berkshire:* (Windsor), heating, Benham & Sons Ltd., London, W1. *Dorset:* (Weymouth), miscellaneous, W. B. Clapcott, Bournemouth. *Hampshire:* (Marchwood), building, William Bell & Sons (Andover) Ltd., Andover. *Oxfordshire:* (Bicester), rooflinings, T. H. Kingerlee & Sons Ltd., Oxford. *Wiltshire:* (Larkhill), building, W. E. Chivers & Sons Ltd., Devizes; (Corsham and Monkton Farleigh), painting and decorating, South London Decorators Ltd., London.

MANSFIELD.—30 flats and four bungalows at Nursery-st. for BC. (A) Direct labour, £57,152.

NEWCASTLE.—Provision of new kitchen at Winterton Hospital for Newcastle Regional Hospital Bd. Fennell & Braddiley, architects, in conjunction with Regional A. P. H. Knighton. Thos. Barratt, Sons & Ptnrs., quantity surveyors. (A) R. Blackett & Son Ltd., £35,200.

NEWCASTLE.—New regional neurological centre at Newcastle General Hospital for Newcastle Regional Hospital Bd. (A) Crudens Ltd., £382,521.

NEWCASTLE ON TYNE.—Offices, workshop, and canteen at Hadrian-rd. for W. Marshall Ltd., bldrs., 10 Eldon-sq., Newcastle. (A) Direct labour.

NEWCASTLE-UNDER-LYME.—28 old people's dwellings at Park-rd., Silverdale, for BC. (A) Joseph Jones Ltd., Liverpool-rd., Newcastle-under-Lyme, £34,307.

OXFORD.—60 maisonettes at St. Ebbe's for City C. (A) John Laing & Son Ltd., £176,463 (fixed price tender).—85 'Easiform' houses and 18 garages at Blackbird Leys estate for City C. (A) John Laing & Son Ltd., £139,752 (negotiated tender).—Extensions at Worcester College, Oxford. Sir Hugh Casson, Neville Conder & Ptnrs., architects. (A) Dove Bros. Est cost £100,000.

READING.—Warehouse and offices at King's-rd., Reading, Berks., for A. S. Duran & Co. Ltd. Eric G. V. Hives & Sons, architects. E. Spriggs & Ptnrs., quantity surveyors. (A) Y. J. Lovell & Son Ltd., Gerrards Cross, Bucks., £88,072.

SHEFFIELD.—Developments at Mount Vernon, Barnsley, for Regional Hospital Bd. (A) The Mitchell Construction Co. Ltd., Fengate, Peterborough, £224,062.—Boiler house at Highbury, Nottingham, for Regional Hospital Bd. (A) Gilbert & Hall Ltd., Wharf-rd. Castle Boulevard, Nottingham, £15,310.—Pathology laboratory and out-patients' dept. at Victoria Hospital, Worksop, for Regional Hospital Bd. (A) J. E. Smith (Worksop) Ltd., Kilton-rd., Worksop, £22,502.

SOUTHALL.—Modernisation of premises at Southall, Middx., for The Crown Cork Co. Ltd. (A) Bovis Ltd. Est. cost £1m.

SOUTHAMPTON.—Erection of Glen Eyre sec. boys' sch. for BC. (GD) Holdsworth Construction Co. Ltd., £181,850.

SOUTH SHIELDS.—Construction of development road from Templeton to Barnes-rd. (£4,700), link road between Sunderland-rd. and St. George's-ave. (£5,000), reconstruction of Imeary-st. (£20,000) and reconstruction of part of Prince Edward-rd. (£19,000), for the TC. (RA) Direct labour.

TYNEMOUTH.—Old people's home, comprising 14 dwellings and caretaker's flat, at Beadnell-ave. for TC (A) R. Sleightholme Ltd., St. Oswin-pl., Tynemouth, £20,985.

WALTON & WEYBRIDGE.—20 flats at Queen's-rd. (Hersham) site for UDC. (A) John Farmer (Builders), Sunbury-on-Thames, £21,693.

WELLINGBOROUGH.—Phase one of extensions at Wellingborough Technical College. (A) A. J. G. Potter & Sons Ltd., Stanwick, £101,194.

WORCESTER PARK (Surrey).—Extension at Worcester PH at Malden-rd., Worcester Park, Surrey. (A) Baileys Ltd., New Malden.

WREXHAM.—24 dwellings at Tanat-way, Queen's Park (North). J. M. Davies, 31 Chester-st., Wrexham, architect. (GD) W. Jones, 2 Willow Lea, Gwersyllt, nr. Wrexham, £30,763 (fixed price tender).

YEOVIL.—30 dwellings at Crompton-rd., South Petherton, for RDC. (A) Alford Bros., £43,236.

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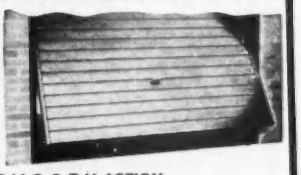

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ATTENTION ADVERTISERS

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

CONTRACTS

THE HAVANT AND WATERLOO URBAN DISTRICT COUNCIL

invite Fixed Price TENDERS for the ERECTION OF 20 AGED PERSONS' FLATS at Forest End, Waterlooville. Conditions of Contract and Drawings may be inspected at the offices of the Engineer and Surveyor, Park-road North, Havant, from whom Bills of Quantities and Form of Tender may be obtained on or after Monday, 29th February, 1960. No Tender will be received except in a plain sealed envelope, which must bear the word "Tender" followed by the subject to which it relates, but shall not bear any name or mark indicating the sender, and must be delivered to the Clerk of the Council, Town Hall, Havant, not later than 12 NOON on SATURDAY, 2nd APRIL, 1960. The Council do not bind themselves to accept the lowest or any Tender.

BOROUGH OF DOVER.

40 HOUSING UNITS.

ST DAVID'S-AVENUE, AYCLIFFE.

FIXED-PRICE TENDERS are invited for the ERECTION OF 40 HOUSING UNITS (together with all site and ancillary works) at St. David's-avenue, Aycliffe, Dover. Tenders may be submitted for all 40 units and/or either of the following:

Part "A" comprising five blocks of four houses.

Part "B" comprising two blocks of four houses, one block of three houses, three pairs of houses and three bungalows.

Bills of quantities, specification and forms of tender may be obtained from the Borough Engineer, Brook House, Dover, on payment of a deposit of £2 2s., returnable on receipt of a bona fide tender not subsequently withdrawn.

Tenders and priced bills of quantities in the separate envelopes provided, should reach the undersigned not later than the 18th MARCH, 1960.

JAMES A. JOHNSON,
Town Clerk.

New Bridge House,
Dover.
19th February, 1960.

COUNTY BOROUGH OF WALSALL.

EDUCATION COMMITTEE.

ERECTION AND COMPLETION OF NEW JUNIOR DEPARTMENT, HATHERTON-LANE C.P. SCHOOL.

Fixed Price TENDERS are invited for the ERECTION AND COMPLETION OF A NEW JUNIOR DEPARTMENT at the above school having a superstructure of Derwent prefabricated timber supplied and fixed by Specialists.

Bills of Quantities and Forms of Tender may be obtained from the undersigned on receipt of a deposit of two guineas which will be refunded upon receipt of a bona fide Tender.

Tenders must be sent in a sealed envelope addressed to the Town Clerk, Council House, Walsall, bearing the words "Tender for the erection of New Junior Dept.—Hatherton-lane C.P. School," and are to be received not later than mid-day on WEDNESDAY, 16th MARCH, 1960.

Any Tender received after the time stated or otherwise than in an envelope endorsed as required may be rejected.

An envelope suitably addressed and endorsed will be supplied with the form of Tender and it is desired that this envelope be used.

The Council do not bind themselves to accept the lowest or any Tender.

M. E. HABERSHON,
Borough Engineer and Surveyor.

Council House,
Walsall.
23rd February, 1960.

CARDIGANSHIRE COUNTY COUNCIL.

TO BUILDERS AND CONTRACTORS.

TENDERS are invited for the ERECTION OF A NEW COUNTY PRIMARY SCHOOL at Comminscoch, near Aberystwyth.

Bills of Quantities may be obtained from the County Architect on deposit of £2 2s. 0d. which will be returnable on receipt of a bona fide Tender not subsequently withdrawn.

Tenders are to be returned to the Clerk of the County Council at Aberystwyth by the 4th APRIL, 1960.

The lowest or any Tender will not necessarily be accepted and no expenses incurred by those Tendering will be defrayed.

G. R. BRUCE,
County Architect.

County Hall,
Aberystwyth.
Cards.
22nd February, 1960.

BOROUGH OF WIMBLEDON.

PAINTING OF STREET LIGHTING STANDARDS, ETC.

TENDERS are shortly to be invited for the PAINTING of approximately
232 No. 25 FOOT STANDARDS.
501 No. 15 FOOT STANDARDS.
16 No. MISCELLANEOUS BRACKETS AND FITTINGS.

Apply to the Borough Surveyor, Town Hall, Wimbledon, S.W.19, not later than 17th MARCH, 1960, for the Tender documents enclosing a deposit of two guineas which will be returned after receipt of a bona fide Tender and/or the return of all documents.

BRIERLEY HILL URBAN DISTRICT COUNCIL.

PERMANENT HOUSING.

SCHEME "D." 34 HOUSES.
SCHOOL-STREET, PENSNETT.

SCHEME "G." 22 HOUSES AND ONE LOCK-UP SHOP,
SHEFFIELD-STREET,
QUARRY BANK.

Builders able to provide the necessary labour to carry out the ERECTION and COMPLETION of either or both of the above schemes are asked to signify their willingness to TENDER for the work to the Council's Architect and Housing Director, John R. Moore, A.R.I.B.A., Civic Buildings, Brierley Hill (at whose offices the drawings and Conditions of Contract may be inspected) not later than WEDNESDAY, 9th MARCH, 1960.

Bills of Quantities are in course of preparation and a deposit of Two Guineas made payable to the Brierley Hill Urban District Council, will be required before documents for one or both schemes are issued.

TENDERS ARE REQUIRED TO BE SUBMITTED ON A FIXED-PRICE BASIS.

The Council does not bind itself to accept the lowest or any Tender.

HERBERT HEX,
Clerk of the Council.

Civic Buildings,
Brierley Hill.
22nd February, 1960.

CHESTER - LE - STREET RURAL DISTRICT COUNCIL.

The Council are prepared to consider TENDERS for the ERECTION OF APPROXIMATELY 140 DWELLINGS at Pelton.

Building Contractors desirous of tendering for this work should submit their names with a returnable deposit of £2 2s., not later than FRIDAY, 11th MARCH, 1960, to the Council's Architect, Mr. F. Bowman, A.R.I.B.A., at the Estate Office, Great North Road, Birtley, Co. Durham.

Plans and Conditions of Contract which will be that of the R.I.B.A., as adapted for Local Authorities, can be inspected at the Architect's Office during the hours of 9 a.m. to 5 p.m., Monday to Friday inclusive, where Specification, Bills of Quantities and Forms of Tender will also be available.

Sealed Tenders in plain envelopes must be posted so as to reach my office, Union Offices, Chester-le-Street, not later than 12 NOON on or before MONDAY, 4th APRIL, 1960, addressed to me, the undersigned, and endorsed "Tenders for erection of Dwellings at Pelton."

The Council do not bind themselves to accept the lowest or any Tender.

Deposits will be refunded on receipt of bona fide Tenders not subsequently withdrawn.

J. SANDERS,
Clerk of the Council.

Union Offices,
Chester-le-Street,
Co. Durham.
25th February, 1960.

BOROUGH OF FINCHLEY.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

ARDEN PLAYING FIELDS CONSTRUCTION OF PUBLIC CONVENIENCE.

TENDERS are invited for the CONSTRUCTION OF A SMALL PUBLIC CONVENIENCE.

Drawings and Conditions of Contract may be seen at, and Specification of Works and Form of Tender obtained from, the office of the Borough Engineer and Surveyor, 294-296 Regents Park-road, Finchley, N.3.

A deposit of £2 will be required, which will be returned on receipt of a bona fide Tender and the return of all documents supplied.

No Tender will be considered unless received in a plain sealed envelope marked "Tender for Public Convenience, Arden Playing Field" and not bearing any name or mark indicating the sender.

Tenders must reach the undersigned by not later than 12 NOON on MONDAY, 28th MARCH, 1960.

The Council does not bind itself to accept the lowest or any Tender.

R. M. FRANKLIN,
Town Clerk.

23rd February, 1960.

BOROUGH OF UXBRIDGE.

EXTERNAL PAINTING CONTRACTS.

TENDERS are invited for the EXTERNAL PAINTING OF HOUSES in the following groups:—

Contract No. 434, 54 HOUSES, Hillingdon.
Contract No. 435, 70 HOUSES, Hillingdon.
Contract No. 436, 128 HOUSES, Harefield.
Contract No. 437, 50 HOUSES, Hillingdon.
Contract No. 438, 56 FLATS, Hillingdon.
Contract No. 439, 42 HOUSES, Uxbridge.
Contract No. 440, 64 HOUSES, Hillingdon.
Contract No. 441, 34 HOUSES, Hillingdon.

Specification, Bills of Quantities and Form of Tender may be obtained from:—Harold E. G. Stripp, A.M.I.C.E., Borough Engineer, Surveyor and Architect, 263 High-street, Uxbridge, Middlesex, on receipt of a deposit of £2 2s. 0d. to be returned on receipt of a bona fide Tender.

Tenders may be submitted for one or more contracts and must be returned in the envelope provided, endorsed "Tender for External Painting" bearing no other mark or indication of the sender.

Tenders must reach the undersigned not later than NOON on SATURDAY, 26th MARCH, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

E. RONALD WEST,
Town Clerk.

265 High-street,
Uxbridge.

BOROUGH OF STOURBRIDGE.

OLD PEOPLE'S DWELLINGS—PRESCOT-ROAD.

TENDERS are invited for the ERECTION OF 27 FLATLETS in a TWO STOREY BLOCK, together with Incidental Works.

The drawings may be inspected at the office, and Bills of Quantities and Documents obtained from the undersigned on receipt of a deposit of £2 2s.

Tenders, in plain sealed envelopes (by registered post), endorsed "Prescot Road Flatlets," to Town Clerk, Council House, Stourbridge, not later than NOON on 4th APRIL, 1960.

The Council does not bind itself to accept the lowest or any Tender. The acceptance of a Tender is subject to the approval of the Ministry of Housing and Local Government.

H. W. MORRIS,
B.Sc. (Eng.), A.M.I.C.E.,
Borough Engineer and Surveyor.

Council House,
Stourbridge.
19th February, 1960.

CITY AND COUNTY OF BRISTOL.

TO BUILDING CONTRACTORS.

Housing Committee invite TENDERS for ERECTION OF 12 DWELLINGS FOR OLD PEOPLE, Ludlow-road, Horfield, Bristol, consisting of one-bed and bed-sitting room flats in two storeys in traditional construction.

Contractors willing to submit Fixed Price Tender on Bills of Quantities, apply to City Architect, Council House, Bristol, 1, by 11th MARCH.

LEEDS REGIONAL HOSPITAL BOARD.

TO ENGINEERING CONTRACTORS.

FIXED PRICE TENDERS are invited for carrying out REORGANISATION OF THE LAUNDRY at Southmoor Hospital, Hemsworth.

Applications for Form of Tender and Specification and Drawings accompanied by a deposit of £2 2s. 0d. (which will be refunded on receipt of a bona fide tender and other contract documents) must be made to the Architect to the Board at the undermentioned address not later than 12 noon on WEDNESDAY, 9th MARCH, 1960. Cheques should be made payable to the "Leeds Regional Hospital Board" and crossed.

A copy of the drawings, Conditions of Tender and Conditions of Contract may be inspected at the office of the Architect to the Board, or at the office of Messrs. R. R. Jennings and Partners, Consulting Engineers, 39 Byrom-street, Deansgate, Manchester.

Sealed Tenders, in the endorsed envelope provided, must be delivered to the undersigned not later than 12 noon on THURSDAY, 7th APRIL, 1960.

The Board does not bind itself to accept the lowest or any tender.

WM. A. SHEE,
Secretary to the Board.

Park-parade,
Harrogate,
Yorks.

COUNTY BOROUGH OF SOUTHEND-ON-SEA.

PROPOSED CENTRAL BUS GARAGE, LONDON-ROAD, SOUTHEND-ON-SEA.

TO BUILDING CONTRACTORS.

TENDERS.

Contractors desiring to Tender for this project are invited to submit their names to the Borough Architect, 30 Alexandra-street, Southend-on-Sea, not later than THURSDAY, 10th MARCH, 1960, accompanied by details of similar works previously undertaken and names of Architects from whom references may be obtained.

The contract comprises the ERECTION OF A CLADDED STEEL FRAMED STRUCTURE mainly single storey but with a two-storey office section overall size about 240 ft. x 190 ft. x 25 ft. high to ridge, including reinforced concrete foundation work, concrete floor, partitioning, engineering services, decorations, adaptation of an existing building to be incorporated in new structure and demolition of remaining properties, external works, etc.

From such applications a selected list of Tenderers will be made by the Committee and those selected will be notified and will be required to make a payment of a deposit of £2 0s. 0d.

Upon receipt of this deposit, the Bills of Quantities and Form of Tender will be forwarded, and it is anticipated that these will be available in March, 1960. The deposit of £2 0s. 0d. will be refunded on receipt of a bona fide Tender or the return of all loaned documents.

The Corporation do not bind themselves to accept the lowest or any Tender.

ARCHIBALD GLEN,
Town Clerk.

COUNTY BOROUGH OF SWANSEA.

BOROUGH ARCHITECT'S DEPARTMENT.

MYNDDBACH COUNTY SECONDARY SCHOOL FOR GIRLS. SECOND PHASE BUILDINGS AT MYNYDDBACH, SWANSEA.

ELECTRICAL INSTALLATION.

Firms wishing to TENDER for the ELECTRICAL INSTALLATION AT THE ABOVE SCHOOL are invited to submit their application to the Borough Architect, Guildhall, Swansea, on or before SATURDAY, 12th MARCH, 1960.

Plans, Specification and Conditions of Contract can be obtained on application and deposit of five pounds. The documents will be sent only to those applicants who have had the necessary experience to carry out work of this nature and magnitude and the applicants are advised that they should give evidence of having previously carried out work of a similar character.

The deposit will be refunded after delivery of a bona fide Tender (not subsequently withdrawn) and the return of all documents.

No guarantee is given that the lowest or any other Tender will be accepted.

T. B. BOWEN,
Town Clerk.

Guildhall,
Swansea.
17th February, 1960.

CITY OF NEW SARUM.

BISHOPDOWN ESTATE, SALISBURY.

TENDERS are invited for the CONSTRUCTION OF 40 HOUSES, 24 FLATS, 11 BUNGALOWS, together with outbuildings, pavings, drainage and all ancillary works at Bishopdown Estate, Salisbury.

Tenders are to be on a "Fixed Price" basis and on Bills of Quantities, which will be available on SATURDAY, 12th MARCH, 1960. Copies of the Bills of Quantities and Form of Tender can be obtained from the City Engineer, The Council House, Salisbury.

Tenders in plain sealed envelopes must be delivered to the undersigned not later than noon on FRIDAY, 8th APRIL, 1960.

GEO. RICHARDSON,
Town Clerk

The Council House,
Bourne Hill,
Salisbury.

CITY OF BRADFORD.

89 DWELLINGS, HOLME WOOD ESTATE, BRADFORD.

TENDERS are invited for the ERECTION OF THE ABOVE. Forms of Tender and Bills of Quantities may be obtained from the City Engineer and Surveyor, Town Hall, Bradford, on payment of a deposit of two guineas returnable on receipt of a bona fide Tender.

Tenders in the envelopes supplied must be delivered to the undersigned not later than NOON on MONDAY, 4th APRIL, 1960.

HENRY PATTEN,
Town Clerk.

Town Hall,
Bradford, 1.

CITY OF CARDIFF.

CITY ARCHITECT'S DEPARTMENT.

TEACHER TRAINING COLLEGE, CYNCOED, CARDIFF.

SITE CLEARANCE, PLAYING FIELDS AND SITE LAYOUT.

FIXED PRICE TENDERS are invited for the CARRYING OUT OF SITE CLEARANCE, PLAYING FIELDS AND SITE LAYOUT for the proposed Teacher Training College at Cyncoed, Cardiff.

The area of the site is approximately 32 acres of which 28.5 acres are woodland and the remainder grassland.

The works comprise the clearance of woodland, stripping top soil, major levelling for playing fields and building site, land drainage, respreading top soil, seeding and turfing playing fields and lawns. The construction of a 440 yard cinder running track, pits, run-ups, etc., for field events, twelve tennis courts perimeter fencing and hedging.

Conditions of Contract, Drawings and Specification may be inspected at the City Architect's Department, 12 Park-place, Cardiff.

Specification, Drawings and Form of Tender may be obtained from the City Architect, to whom application should be made, accompanied by a deposit of £2 2s. Cheques should be made payable to the Cardiff Corporation and crossed "Not negotiable and Co." The deposit will be refunded on receipt of a bona fide Tender or the return of the contract documents.

Tenders will not be considered unless enclosed in the envelope provided and endorsed "Tender for Teacher Training College, Cyncoed — Site Clearance," addressed to the Town Clerk at the City Hall, Cardiff, and sent by REGISTERED POST to as to be received not later than the 23rd MARCH, 1960.

The envelope must not bear the name of or any mark indicating the identity of the Tenderer.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.
February, 1960.

BOROUGH OF BASINGSTOKE.

SOUTH HAM ESTATE, BASINGSTOKE.

TENDERS are invited for the ERECTION OF A TOTAL OF 223 DWELLINGS, comprising TWO- AND THREE-STOREY FLATS, HOUSES AND BUNGALOWS, and 126 GARAGES. The scheme, which includes part of the Council's proposals of Expansion in conjunction with the L.C.C. is situated on two sites, half a mile apart, and known as:

(1) 32nd Instalment: comprising 72 DWELLINGS AND 72 GARAGES.
(2) 33rd Instalment: comprising 151 DWELLINGS AND 54 GARAGES.

The 32nd Instalment is to be let as one contract, but the 33rd Instalment can be divided into groups as shown below, and may be let in whole or in part:

Group "A." 63 Dwellings and 15 Garages.
Group "B." 52 Dwellings and 34 Garages.
Group "C." 13 Dwellings.
Group "D." 17 Dwellings and 5 Garages.
Group "E." 6 Dwellings.

Forms of Tender, Bills of Quantities, and General Conditions of Contract may be obtained from the Borough Architect, Eric Almond, Dipl.Arch., A.R.I.B.A., Municipal Buildings, Basingstoke, on payment of a deposit of £2 2s., which will be returned on receipt of a bona fide tender.

Tenders are to be returned to the undersigned by noon on the 21st MARCH, 1960.

The Council do not bind themselves to accept the lowest or any tender.

L. WOMERSLEY,
Town Clerk.

NORTHAMPTON RURAL DISTRICT COUNCIL.

1960 BUILDING PROGRAMME.

TENDERS are invited for the ERECTION of 52 BUNGALOWS, 12 HOUSES and 3 CLUB ROOMS on the following sites:—

Denton 11; Great Houghton 4; Little Houghton 17; Harpole 8; Kislingbury 12; Milton 10; Rotherstorpe 2.

Plans, Specifications and Bills of Quantities can be obtained from R. J. Miller, A.I.A.S., Architect, 1 Cheyne-walk, Northampton, upon payment of £3 3s. deposit, returnable on receipt of a bona fide Tender.

Tenders in plain, sealed envelopes marked "1960 Building Programme" are to be deposited with the undersigned by not later than 10 a.m. WEDNESDAY, 13th APRIL, 1960.

The Council do not bind themselves to accept the lowest or any Tender and reserve the right to accept any Tender for single or combination of sites.

CLIFFORD E. JONES,
Clerk of the Council.

Council Offices,
1 Cheyne-walk,
Northampton.
19th February, 1960.

METROPOLITAN BOROUGH OF WANDSWORTH.

EXTERNAL PAINTING.

Contractors wishing to TENDER for EXTERNAL PAINTING WORKS at Wimbledon Park Estate, Albert-drive, S.W.19 (169 DWELLINGS IN 8-STOREY BLOCKS) and at Flowersmead Estate, Upper Tooting-park, S.W.17 (87 DWELLINGS IN 3-STOREY BLOCKS) should submit their names to me by not later than WEDNESDAY, 23rd MARCH, 1960, giving details of experience and plant available together with the names of two technical and two financial referees. Tender documents will be issued to selected contractors in due course.

J. NOEL MARTIN,
Town Clerk.

Municipal Buildings,
Wandsworth, S.W.18.

BROMLEY COMMITTEE FOR EDUCATION.

COUNTY GRAMMAR SCHOOL FOR GIRLS,
NIGHTINGALE-LANE, BROMLEY.

Contractors having suitable experience of School Contracts, details of which are to be submitted, are invited to apply for consideration to TENDER for the ERECTION OF TWO LABORATORIES ON TWO FLOORS.

Drawings and Conditions of Contract may be inspected at the office of the Borough Engineer, to whom applications to tender should be sent, with particulars as requested. Tenders are to be returned not later than FRIDAY, 25th MARCH, 1960.

The Committee for Education do not bind themselves to invite all firms to tender or to accept the lowest or any Tender.

H. T. SMITH,
Borough Education Officer.

Municipal Buildings,
Bromley,
Kent.
25th February, 1960.

BOROUGH OF DUNSTABLE.

TO DECORATORS.

The Council invite TENDERS for the EXTERIOR REDECORATION of the following dwellings:—

Contract No. 1—102 HOUSES AND FLATS, Beecroft Estate.
Contract No. 2—118 HOUSES AND FLATS, Downside Estate.

Contractors may tender for both Contracts or sections of any Contract.

Specifications and Forms of Tender may be obtained from the Housing Estates Manager, Priory House, Dunstable, on payment of £1 1s. for each set of documents, which will be refunded on receipt of a bona fide Tender or Tenders not subsequently withdrawn.

Tenders must be received by the undersigned not later than THURSDAY, 17th MARCH, 1960, in the endorsed envelope provided and must not bear any mark or name indicating the sender.

The Council does not bind itself to accept the lowest (or any) Tender, and reserves the right to accept any section of any Tender and not necessarily the whole Tender.

JACK SMITH,
Town Clerk.

Municipal Offices,
Dunstable, Beds.
25th February, 1960.

BOROUGH OF WALTHAMSTOW.

TENDERS are invited for the ERECTION of a PUBLIC CONVENIENCE comprising a single-storey brick-built structure of approximately 19,000 cubic feet, on a site at the junction of Willow Walk and St. James Path, Walthamstow, E.17.

Applications to Tender should be made to the Borough Architect, Engineer and Surveyor, Town Hall, Walthamstow, E.17, and must be accompanied by a deposit of two guineas, returnable on receipt of a bona fide Tender or the return of all documents. The Bills of Quantities, Forms of Tender, etc., will be forwarded on receipt of an application. Sealed Tenders are to be delivered to the undersigned in the endorsed envelope provided not later than NOON on WEDNESDAY, 23rd MARCH, 1960. Conditions of Contract will be available for inspection at the office of the Borough Architect, Engineer and Surveyor between the hours of 9 a.m. and 5 p.m. from Monday to Friday, and from 9 a.m. to noon on Saturday.

The Council do not bind themselves to accept the lowest or any Tender.

G. A. BLAKELEY,
Town Clerk.

Town Hall,
Walthamstow, E.17.
24th February, 1960.

COUNTY COUNCIL OF ESSEX.

LAINDON HEALTH SERVICES CLINIC.

ALTERATIONS AND ADDITIONS.

Contractors wishing to submit a firm price TENDER for the above should forward their names, from which a panel will be chosen and provided with Tender documents.

The work consists of the ERECTION OF A NEW WING ON SHORT BORE PILES AND ALTERATIONS TO AN EXISTING BUILDING, estimated cost £5,580. The architect for this contract is The Borough Architect, Barking.

Applications to reach the undersigned not later than 12th MARCH, 1960.

H. CONOLLY,
C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

BOROUGH OF SCARBOROUGH.

ERECTION OF 24 FLATS—FOXTON'S FARM, SCALBY-ROAD.

FIXED PRICE TENDERS are invited for the above. Bills of Quantities, Conditions of Contract and Form of Tender may be obtained from and drawings seen on application to the undersigned. Applications are to be accompanied by a deposit of £2 2s. 0d. which is returnable on receipt of a bona fide tender.

Sealed Tenders in the envelope provided to be delivered to the undersigned to arrive by 9 a.m. on MONDAY, 4th MARCH, 1960.

The Corporation does not bind itself to accept the lowest or any tender. Contractors tendering do so at their own expense.

V. FORSHAW,
Borough and Water Engineer.

Town Hall,
Scarborough.

BOROUGH OF SCUNTHORPE.

NEW MUNICIPAL OFFICES AND COUNCIL SUITE.

(a) HEATING AND VENTILATING INSTALLATIONS.
(b) HOT AND COLD WATER SERVICES.

The Council invite Contractors, possessing a substantial organisation, willing to submit a FIRM PRICE TENDER for EITHER OR BOTH OF THE ABOVE SERVICES, to forward their names to the undersigned not later than 16th MARCH, 1960.

Applications should contain an assurance that the applicant has the necessary financial and material reserves and organisation to undertake the work. Evidence of this should accompany their application together with a list of works recently carried out.

The Council reserve the right to select from the applicants, a list of firms who will be invited to submit Tenders and does not bind itself to accept the lowest or any Tender.

The work consists of a MUNICIPAL OFFICE BLOCK OF 5 STOREYS, having a total area of 51,900 sq. ft., the COUNCIL SUITE OF 2 STOREYS with a total area of 10,400 sq. ft.

The period of the Main Contract will be 2 years and commenced 1st FEBRUARY, 1960.

Specification and drawings for these services have been prepared by the Consulting Engineers, Messrs. R. W. Gregory and Partners, 1 Brazennose-street, Manchester. The Architects for the scheme are Messrs. C. B. Pearson & Son, Lancaster.

T. M. LISTER,
Town Clerk.

Municipal Offices,
34 High-street,
Scunthorpe.
23rd February, 1960.

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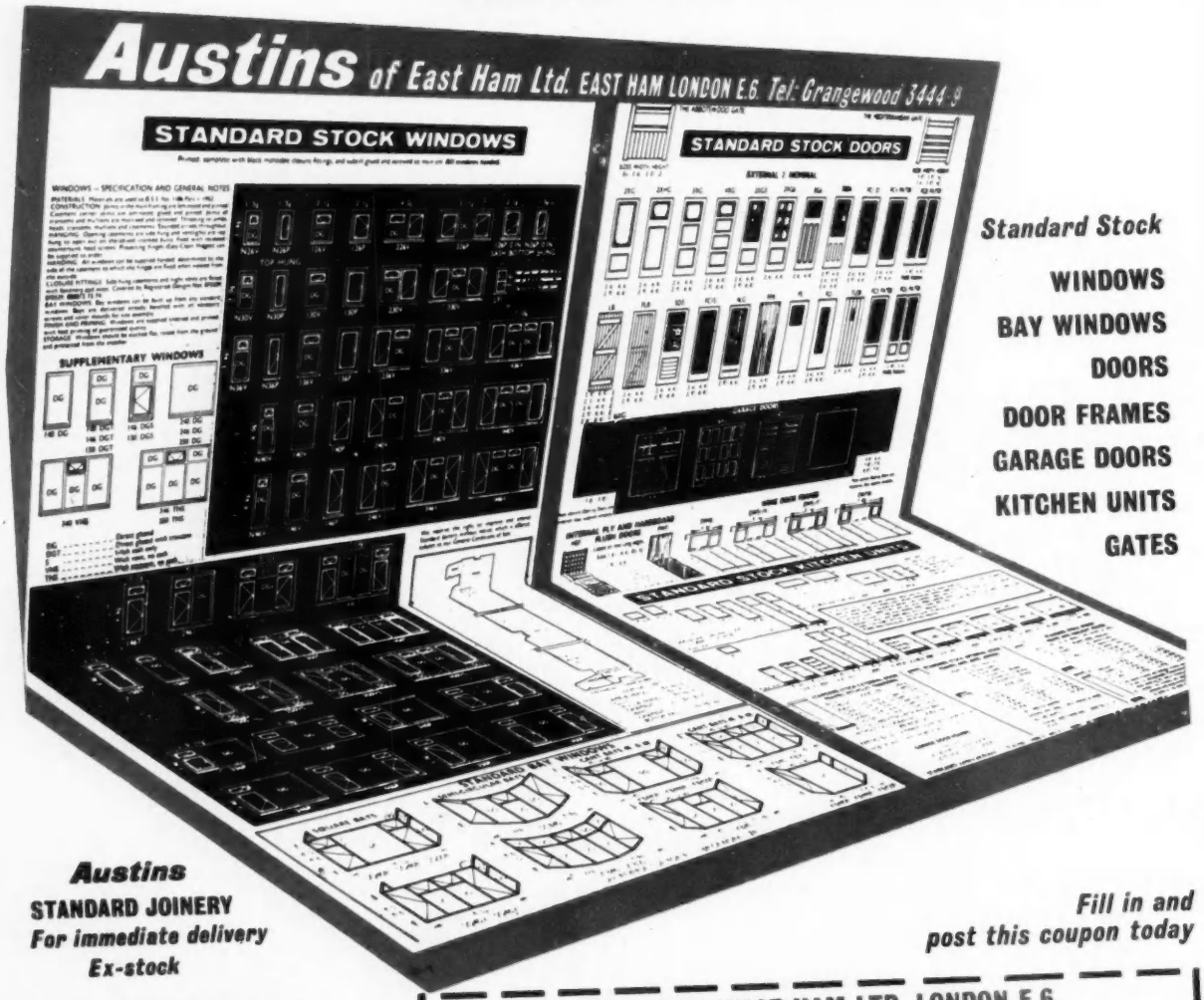

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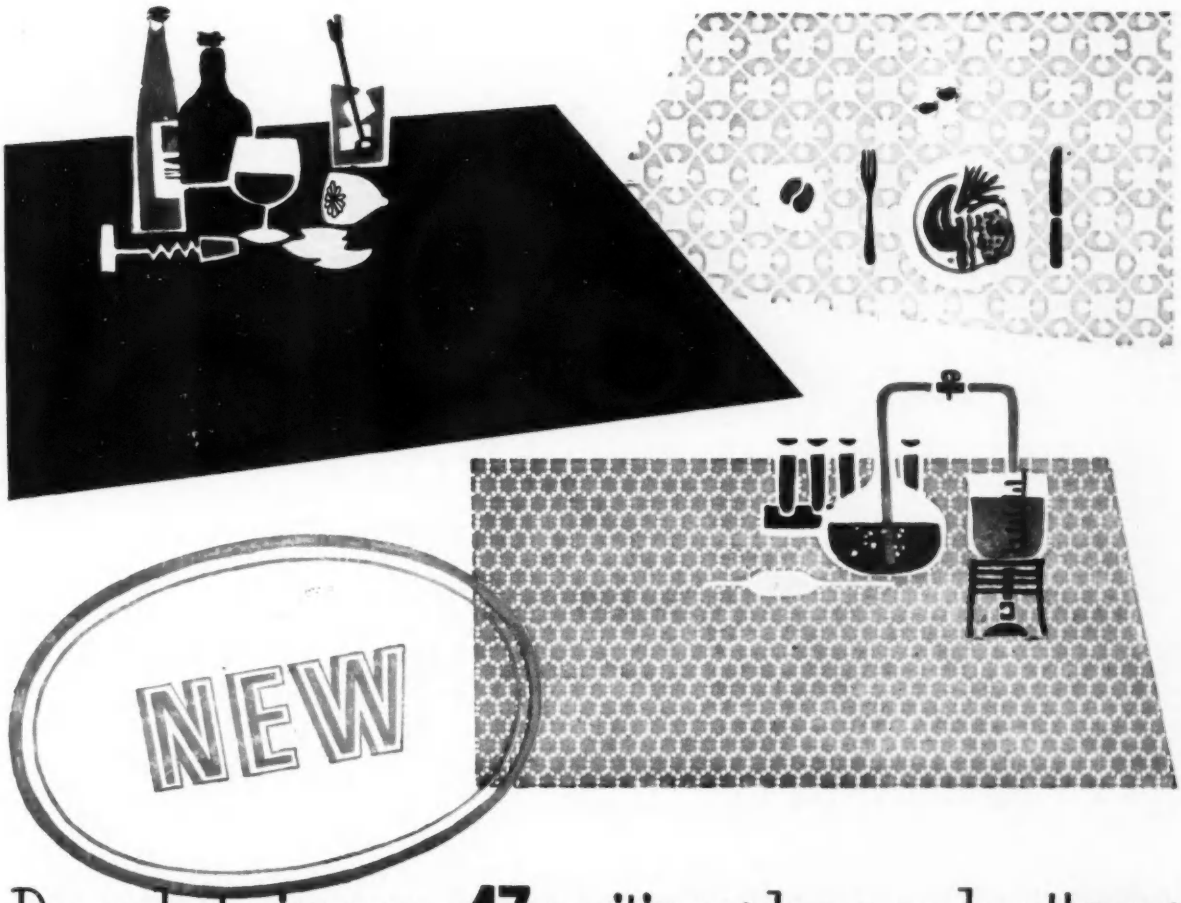

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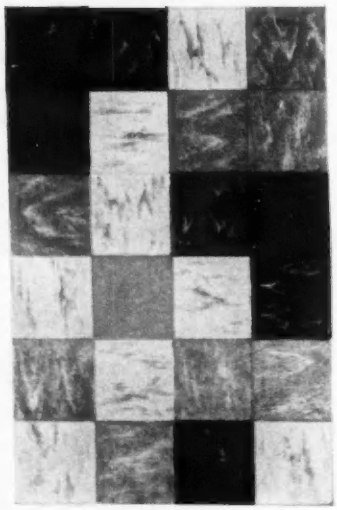

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EAST GRINSTEAD URBAN DISTRICT COUNCIL.

ROOF TILING.
EXTERNAL PAINTING.

FIXED PRICE TENDERS are invited for :—

(a) STRIPPING, FELTING, BATTENING AND RE-TILING IN PLAIN CONCRETE TILES THE ROOFS OF 18 HOUSES at Brooklands Estate.

(b) EXTERNAL PAINTING OF 92 DWELLINGS AT VARIOUS SITES SUB-DIVIDED INTO TWO GROUPS OF 61 AND 31, and also the INTERNAL REDECORATION of Stonequarry Hall; contractors may tender for the whole or one or more of the three groups.

General Conditions, Specification and Form of Tender obtainable from Mr. B. J. Cornelius, F.R.I.C.S., Surveyor to the Council at the undermentioned address upon receipt of a cheque for Two Guineas made payable to the Council for each of the documents (a) and (b) above.

Tender deposits refunded on receipt of a bona fide Tender and the return of the whole of the documents.

Tenders returnable by not later than NOON on SATURDAY, 26th MARCH, 1960, to the undersigned in the envelope provided.

The Council does not bind itself to accept the lowest or any Tender, and reserves the right to accept separate Tenders for each group in the painting section.

H. C. JONES,
Clerk of the Council.

East Court,
East Grinstead,
Sussex.

EAST GRINSTEAD URBAN DISTRICT COUNCIL.

DEMOLITION AND SITE CLEARANCE.

TENDERS are invited for the above works comprising NINE BRICK-BUILT TILED ROOF COTTAGES AND OUT-BUILDINGS at West-street, East Grinstead.

Schedule of Works, Site Plan and Form of Tender, obtainable from Mr. B. J. Cornelius, F.R.I.C.S., Surveyor to the Council, at the undermentioned address, and Tenders on the appropriate form returnable to the undersigned in the envelope provided by not later than NOON on SATURDAY, 26th MARCH, 1960.

The Council does not bind itself to accept the highest offer or any Tender received.

H. C. JONES,
Clerk of the Council.

East Court,
East Grinstead,
Sussex.

COUNTY BOROUGH OF READING.

FIRM PRICE TENDERS are invited for the INTERNAL REDECORATION of Park-lane, Emmer-green and George Palmer Primary Schools, and the EXTERNAL PAINTING of Park-lane School. General Conditions may be inspected and Specifications obtained from the Borough Architect, Town Hall, Reading. Tenders to the Town Clerk, Town Hall, Reading, by 12 NOON, 29th MARCH, 1960. No Tender considered unless enclosed in the endorsed envelope provided which shall bear no indication of the sender. The Corporation do not bind themselves to accept the lowest or any Tender.

ESSEX COURT OF QUARTER SESSIONS AND COUNTY COUNCIL OF ESSEX.

POLICE HOUSES.

(1) THREE PAIRS, Chatteris-avenue, Harold Hill.
(2) TWO PAIRS, Rosslyn-avenue, Harold Wood.
(3) THREE PAIRS, Basildon New Town.

Contractors wishing to submit firm price TENDERS for the ERECTION OF THE ABOVE should forward their names, from which panels will be chosen and provided with Bills of Quantities.

The estimated costs are :—
(1 and 3), £14,000; (2), £9,300.

Separate applications for each contract to reach the undersigned not later than 12th MARCH, 1960.

H. CONOLLY,
C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

COUNTY BOROUGH OF BRIGHTON.

FIXED PRICE TENDERS are invited for :—

ERECTION OF THE 1ST STAGE OF THE COLLEGE OF ARTS AND CRAFTS.

Bills of Quantities and Form of Tender may be obtained from the Borough Surveyor, Engineer and Planning Officer, 26-30 King's-road, Brighton, on or after MONDAY, 7th MARCH, 1960, on receipt of a returnable deposit of £3 3s. Drawings may be inspected upon application at the Borough Surveyor's Office. Tenders are to be delivered to the Town Clerk in the plain sealed envelope provided not bearing any name or mark indicating the sender by NOON on TUESDAY, 12th APRIL, 1960.

W. O. DODD,
Town Clerk.

BOROUGH OF SUTTON AND CHEAM.

TENDERS are invited for the EXTERNAL PAINTING of the following properties :—

(a) Dibdin-road area, Sutton, 84 HOUSES;
(b) Benhill Wood-road area, Sutton, and Gander Green-lane area, Cheam, 51 HOUSES AND FLATS;
(c) Longfield-crescent and Homefield-gardens, Tatworth, 48 FLATS and 56 GARAGES.

Specifications, Conditions and Forms of Tender can be obtained from the Housing Manager, 24 Cheam-road, Sutton, on payment of £1 1s. deposit, which will be returned on receipt of a bona fide Tender.

Tenders, which may be accepted wholly or in part, must be addressed and delivered to the undersigned in a plain envelope, endorsed "Painting" but otherwise unmarked, by the first post on 18th MARCH, 1960.

The Council does not bind itself to accept the lowest or any Tender.

ARTHUR PRIESTLEY,
Town Clerk.

Municipal Offices,
High-street,
Sutton, Surrey.

COUNTY BOROUGH OF BLACKBURN.

PROPOSED EXTENSIONS TO WITTON PARK SECONDARY MODERN SCHOOL.

Contractors wishing to TENDER for this proposed building in all trades should apply to the Borough Engineer, Town Hall, Blackburn, by 11th MARCH, 1960, enclosing a deposit of £2 2s. which will be refunded upon receipt of a bona fide Tender.

FRANK SQUIRES,
Town Clerk.

LEEDS REGIONAL HOSPITAL BOARD.

TO BUILDING CONTRACTORS.

Fixed Price TENDERS are invited for carrying out ALTERATIONS TO THE LAUNDRY at Southmoor Hospital, Hemsworth.

Applications for Form of Tender and Bills of Quantities accompanied by a deposit of £2 2s. 0d. (which will be refunded on receipt of a bona fide Tender and other contract documents) must be made to the Architect to the Board at the undermentioned address not later than 12 NOON on WEDNESDAY, 16th MARCH, 1960. Cheques should be made payable to the "Leeds Regional Hospital Board" and crossed.

A copy of the drawings, Conditions of Tender and Conditions of Contract may be inspected at the office of the Architect to the Board, or at the office of Messrs. Kitson, Parish, Ledgard and Pyman, Chartered Architects, Lloyds Bank Chambers, Vicar-lane, Leeds.

Sealed Tenders, in the endorsed envelope provided, must be delivered to the undersigned not later than 12 NOON on THURSDAY, 7th APRIL, 1960.

The Board does not bind itself to accept the lowest or any Tender.

WM. A. SHEE,
Secretary to the Board.

Park-parade,
Harrogate,
Yorks.

NEWMARKET URBAN DISTRICT COUNCIL.

TENDERS.

NINE HOUSES AND 12 GARAGES IN ST. WENDRED'S WAY, EXNING.

TENDERS are invited for the ERECTION OF THE ABOVE to be built in Traditional Construction on a site on the Chapel-street Estate, Exning.

The work to be carried out includes the whole of the site preparations, pavings, drainage and services.

Applications, accompanied by a deposit of £2 2s. 0d. which will be refunded on receipt of a bona fide Tender and/or the return of all documents, should be addressed to the Architect, P. D. Lees, L.R.I.B.A., at the Council Offices, Severals House, Newmarket (where Drawings and Conditions of Contract may be inspected during normal office hours) and Tenders are to be delivered to the undersigned on a date to be notified when the documents are despatched.

The Council do not bind themselves to accept the lowest or any Tender.

JOHN CRABB,
Clerk of the Council.

Severals House,
Newmarket.

GLOUCESTERSHIRE COUNTY COUNCIL.

STROUD AND DISTRICT TECHNICAL COLLEGE.

EXTENSIONS (PHASE III).

Applications for Bills of Quantities with deposit of £2 2s., returnable upon receipt of bona fide FIXED-PRICE TENDER, to reach County Architect, Shire Hall, Gloucester, by 14th MARCH.

The work will be in pre-stressed concrete construction, having a total floor area of approximately 29,000 sq. ft.

The Council does not bind itself to accept the lowest or any tender.

GUY H. DAVIS,
Clerk of the County Council.

COUNTY COUNCIL OF ESSEX.

(1) St. Osyth's Training College, Clacton. PROVISION OF FURTHER ACCOMMODATION.

(2) Purleigh County Primary School. ASSEMBLY HALL AND KITCHEN.

Contractors wishing to TENDER for the ERECTION OF THE ABOVE should forward their names, from which panels will be chosen and provided with Bills of Quantities.

(1) Consists of four-, three- and single-storey blocks in reinforced concrete and loadbearing brickwork and alterations to existing College buildings, estimated cost £230,000. The extent and phasing of the work necessitates commencing all blocks at the beginning of the contract. Contractors should give details of their ability to carry out this work, noting that high quality reinforced concrete is involved. The private architects for this contract are A. R. Dannatt & Son, Duke-street, Chelmsford. Bills of Quantities are expected to be available mid April, 1960.

(2) In loadbearing brick walls and flat timber roof with steel stanchions and beams in assembly hall, estimated cost £12,000. This is a firm price contract.

Separate applications for each contract to reach the undersigned not later than 12th MARCH, 1960.

H. CONOLLY,
C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

BOROUGH OF ROYAL TUNBRIDGE WELLS.

TENDERS are invited for BUILDING 74 DWELLINGS in the North-street Area.

Applications for Form of Tender and Bills of Quantities should be made to the Borough Surveyor and Waterworks Engineer, Town Hall, Tunbridge Wells, accompanied by a deposit of two guineas. The closing date for the receipt of tenders will be notified and is likely to be about 4th APRIL, 1960.

The General Conditions of Contract and Drawings can be seen at the Borough Surveyor's Office.

M. J. H. GIRLING,
Town Clerk.

Town Hall,
Tunbridge Wells.

BOROUGH OF MANSFIELD.

LADYBROOK HOUSING ESTATE.

BRANCH LIBRARY—
LADYBROOK-LANE.

TENDERS are invited for the ERECTION OF A BRANCH LIBRARY.

Drawings may be inspected and Bills of Quantities, Forms of Tender, General Conditions of Contract and other relevant documents obtained from Mr. E. T. Crowe, B.Sc., A.M.I.C.E., Borough Engineer and Surveyor, Carr Bank, Mansfield, on payment of a deposit of two guineas (£2 2s. 0d.) made payable to the Town Council of Mansfield, which will be refunded on receipt of a bona fide Tender not subsequently withdrawn, or the return of all loaned documents. Documents will be available on or after 3rd MARCH, 1960.

Tenders will only be considered if they are submitted in the envelope provided which will be suitably endorsed and addressed. This must be sealed and delivered to the undersigned not later than 12 NOON on THURSDAY, 31st MARCH, 1960.

The Corporation does not bind itself to accept the lowest or any Tender and the provisional acceptance of a Tender will be subject to the approval of the Ministry of Housing and Local Government.

A. C. SHEPHERD,
Town Clerk.

Carr Bank,
Mansfield.

BOROUGH OF MANSFIELD.

PUBLIC LIBRARY,
LEEMING-STREET, MANSFIELD.

PROPOSED ALTERATIONS AND EXTENSIONS.

TENDERS are invited for the ERECTION OF AN EXTENSION TO THE EXISTING PUBLIC LIBRARY.

Drawings may be inspected and Bills of Quantities, Forms of Tender, General Conditions of Contract and other relevant documents obtained from Mr. E. T. Crowe, B.Sc., A.M.I.C.E., Borough Engineer and Surveyor, Carr Bank, Mansfield, on payment of a deposit of two guineas (£2 2s. 0d.) made payable to the Town Council of Mansfield, which will be refunded on receipt of a bona fide Tender not subsequently withdrawn, or the return of all loaned documents. Documents will be available on or after 3rd MARCH, 1960.

Tenders will only be considered if they are submitted in the envelope provided, which will be suitably endorsed and addressed. This must be sealed and delivered to the undersigned not later than 12 NOON on THURSDAY, 31st MARCH, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

A. C. SHEPHERD,
Town Clerk.

Carr Bank,
Mansfield.

BOROUGH OF RICHMOND (SURREY).

TO BUILDERS.

The Council invite TENDERS for EXTERNAL PAINTING AND MINOR REPAIRS TO 128 COUNCIL HOUSES in the Ham area. This work is set out in two Contracts and contractors may tender for these individually or may quote for the whole as one contract.

Forms of Tender, Specifications and Schedules may be obtained from the Borough Engineer and Surveyor, Hotham House, Heron Court, Richmond.

Tenders sealed in envelope provided must be received not later than 5 p.m. on MONDAY, 21st MARCH, 1960.

The Council do not bind themselves to accept the lowest or any tender.

CLIFFORD HEYWORTH,
Town Clerk.

Town Hall,
Richmond,
Surrey.

DURHAM COUNTY COUNCIL.

TENDERS invited :—

Billingham Campus School comprising a Grammar Technical School, two Secondary Modern Schools, a Practical Block, a Domestic Science/Science Block and a Physical Education Block: (a) HEATING, VENTILATING, GAS INSTALLATIONS, etc.; (b) BISON UNITS; (c) SUSPENDED CEILINGS; (d) METAL WINDOWS; (e) TENNIS COURTS; (f) TARMACADAM PAVINGS.

Ryhope Grammar School: EXTENSIONS—SUPPLY AND ERECTION OF STRUCTURAL STEELWORK.

Ryton Modern School: EXTENSIONS—SUPPLY AND ERECTION OF STRUCTURAL STEELWORK.

Spennymoor New Dental Clinic—ERECTION.

Application for further details to County Architect, South-street, Durham, not later than 16th MARCH, 1960.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.

HARPENDEN URBAN DISTRICT COUNCIL.

TENDERS FOR THE ERECTION OF COTTAGE FLATS AND HOUSES.

TENDERS are invited from Registered Builders for the ERECTION of TWELVE PERMANENT TRADITIONAL - TYPE COTTAGE FLATS and SIX TRADITIONAL-TYPE HOUSES on the Batford (South) Housing Estate, Harpenden. The flats will consist of three blocks of semi-detached flats (four flats to each block) and the houses will be in pairs.

The Specifications, Bills of Quantities and Form of Tender will be supplied to firms who apply for them to the undersigned and such applications shall be accompanied by a deposit of £2 2s., which will be returned on receipt of a bona fide tender (not subsequently withdrawn) and the return of all documents. The General Conditions of Contract, and copies of the plans as prepared by the Council's Architect (J. H. Leech, Esq., F.R.I.B.A.), may be seen in the office of the Engineer and Surveyor, Harpenden Hall, Harpenden.

Tenders, in plain sealed envelopes, and endorsed "Tender for twelve Flats and six Houses, Harpenden," must be delivered to the undersigned not later than MONDAY, 28th MARCH, 1960.

The Contractor must be prepared to enter into a formal Contract and Bond with sufficient sureties for the due performance of the Contract.

The Council do not bind themselves to accept the lowest or any tender and the acceptance of any tender will be subject to the approval of the Ministry of Housing and Local Government.

FREDERICK A. HARRIS,
Clerk of the Council.

Harpenden Hall,
Harpenden,
Herts.

26th February, 1960.

CITY OF SALFORD.

PROPOSED 339 (15-STOREY) FLATS AND 28 (4-STOREY) MAISONETTES AT ST. MATTHIAS CLEARANCE AREA NO. 2 (PART 1), SILK-STREET SITE, SALFORD, 3.

FIRM-PRICE TENDERS are invited for the CONSTRUCTION OF 339 FLATS in three fifteen-storey blocks and 28 MAISONETTES in three four-storey blocks, together with services, roads, paths and landscaping, at St. Matthias Clearance Area No. 2 (part 1), Silk-street, Salford, 3.

Conditions of Contract and Drawings may be inspected at, and Bills of Quantities and Form of Firm-Price Tender obtained from, The City Engineer and Surveyor's Department, Town Hall, Salford, 3, on payment of a deposit of £5 5s., which will be returned on submission of a bona fide Firm-Price Tender not subsequently withdrawn.

Firm-Price Tenders on the prescribed form, sealed in the envelope provided and bearing no other mark or identification, must be forwarded to the undersigned so as to be received not later than 10 a.m. on FRIDAY, 1st APRIL, 1960.

The Council does not bind itself to accept the lowest or any Firm-Price Tender.

R. RIBBLESDALE THORNTON,
Town Clerk.

URBAN DISTRICT OF BROWNHILLS.

ENGINEER AND SURVEYOR'S DEPARTMENT.

ERECTION OF 18 HOUSES, HIGH-STREET, CLAYHANGER.

TENDERS are invited for the ERECTION OF 18 HOUSES, High-street, Clayhanger, Brownhills.

Bills of Quantities, Plans and Forms of Tender may be obtained from Mr. Charles H. Hunt, Engineer and Surveyor, Coombe House, Brownhills, on receipt of a returnable deposit of £2 2s.

Tenders should be returned to the Engineer and Surveyor in a plain sealed envelope endorsed "Tender for 18 Houses, High-street, Clayhanger," not later than MONDAY, 28th MARCH, 1960.

NORMAN WAINE,
Clerk of the Council.

Council Offices,
Brownhills.
24th February, 1960.

BOROUGH OF JARROW.

HOUSING SUPPLIES, 1960/61.

The Council invite applications from suppliers and contractors who wish to be placed on the list of approved contractors to whom invitations to tender for the supply of materials and services will be issued during the twelve months ending 31st MARCH, 1961, as and when schemes are initiated.

Applications should be addressed to the Borough Engineer, Town Hall, Jarrow, stating for which of the following goods or services the applicant wishes to tender.

Tenders will be invited at various periods throughout the year.

(a) RAINWATER GOODS AND SOIL PIPES.
(b) COPPER PIPES AND FITTINGS.
(c) DOMESTIC HOT WATER BOILERS, RADIATORS, ETC.
(d) TILED FIREPLACES.
(e) WINDOWS.
(f) THERMOPLASTIC OR ASPHALT FLOORING.
(g) ELECTRICAL MATERIALS (SUPPLY OF).
(h) ROOF TILING.
(i) SANITARY FITTINGS.
(j) HARDWARE.
(k) DOORS.
(l) STAIRCASES.
(m) MECHANICAL HAULAGE (WORKING WITH EXCAVATOR).
(n) CONCRETE FLOORING.
(o) FELT ROOFING.
(p) WOOD WOOL SLABS OR EQUIVALENT.

M. L. ROTHFIELD,
Town Clerk.

Town Hall,
Jarrow.

CITY OF WORCESTER.

RE-ADVERTISEMENT.

ERECTION OF 65 DWELLINGS, MOOR-STREET REDEVELOPMENT AREA.

TENDERS are invited for the ERECTION OF THESE DWELLINGS, comprising ONE- AND TWO-BEDROOM FLATS IN THREE STOREYS, BED-SITTING ROOM FLATS IN TWO STOREYS AND OLD PEOPLE'S BUNGALOWS.

Documents obtainable from City Engineer and Surveyor, 22 Bridge-street, Worcester, on deposit of three guineas (cheques payable to "Worcester Corporation") which will be refunded after receipt of bona fide Tender and the return of Tender documents.

Tenders to be posted to the undersigned to arrive not later than MONDAY, 4th APRIL, 1960.

BERTRAM WEBSTER,
Town Clerk.

Guildhall,
Worcester.

WORCESTERSHIRE COUNTY COUNCIL.

In conformance with Standing Orders promulgated by the County Council, Contractors, Specialist Sub-Contractors and Specialist Suppliers are invited to apply to have their names placed on the approved list of the County Council for works, and for materials to be supplied for County Council building contracts. In the case of General Contractors they should state the financial limits up to which they wish to be included under the following: (a) Up to £1,000; (b) £2,000; (c) £10,000; (d) £50,000; (e) Above £50,000.

Specialist Sub-Contractors and Suppliers for the following materials:—

(1) Specialist Sub-Contractors for SUPPLY and ERECTION of:—
ARCHITECTURAL METALWORK.
ASPHALT AND TARMAC PAVING.
BORE HOLE SINKING AND CONSTRUCTION.
CLOAKROOM FITTINGS.
CURTAINS AND BLINDS INCLUDING ROLLER SHUTTERS.
DEMOLITION WORKS.
ELECTRICAL INSTALLATIONS.
FENCING.
FLOORING (state types of finish).
GLASS AND GLAZING.
HARD TENNIS COURTS.
HEATING AND HOT WATER.
LIFTS.
METAL WINDOWS OR DOME LIGHTS.
NATURAL STONE.
PLASTERING.
PLUMBING.
RE-INFORCED CONCRETE.
ROOFING.
SECTIONAL AND PORTABLE BUILDINGS.
STRUCTURAL STEELWORK.
SUSPENDED CEILINGS.
WALLTILING AND SYNTHETIC FINISHES.
WELL SINKING.

(2) Specialist WHOLESALE SUPPLIERS of:—
BUILDERS' IRONMONGERY.
JOINERY.
NATURAL STONE.
PREFABRICATED PARTITIONS.
RECONSTRUCTED STONE.
SANITARY FITTINGS.
STEEL OR WOODEN FURNITURE.
SUPPLY OF COMMON BRICKS.
SUPPLY OF ENGINEERING OR SEMI-ENGINEERING BRICKS.
SUPPLY OF FACING BRICKS.

Names must be sent to L. C. Lomas, F.R.I.B.A., County Architect, 14 Castle-street, Worcester, not later than 18th MARCH, 1960. (W.266.)

URBAN DISTRICT COUNCIL OF WINDERMERE.

HOUSING.

DROOMER STILE ESTATE.

TENDERS are invited for:

(a) CONSTRUCTION OF ROADS AND SEWERS;
(b) ERECTION OF 37 HOUSES.

Contractors may tender for (a) or (b) above or both.

Plans and Conditions of Contract may be inspected at the office of, and a copy of the Bills of Quantities and form of Tender obtained on application to, the Council's Surveyor, Council Offices, Windermere, upon payment of Three Guineas in respect of each contract, returnable where a bona fide tender reaches the Council within the prescribed time.

Tenders on the prescribed form are to be enclosed in plain sealed envelope, bearing no indication or mark of the tender, and endorsed (a) "Construction of Roads and Sewers" or (b) "Erection of 37 houses," as the case may be, and delivered at the office of the undersigned, not later than FRIDAY, 1st APRIL, 1960.

The Council does not bind itself to accept the lowest or any tender.

THOMAS WATSON,
Clerk of the Council.

Council Offices,
Windermere.

LEYLAND URBAN DISTRICT COUNCIL.

CONTRACT No. 32—ERECTION OF 22 GARAGES, WADE HALL ESTATE.

The Council invite FIXED PRICE TENDERS for the ERECTION OF 22 PRECAST CONCRETE GARAGES together with the construction of concrete bases and other ancillary works on the Wade Hall Estate, Leyland.

Copies of the plans, specification and forms of tender, together with conditions of contract may be obtained from the office of Mr. F. D. Howe, M.I.Mun.E., Engineer and Surveyor, Council Offices, Leyland, on application on or after MONDAY, 7th MARCH, 1960, this application to be accompanied by a deposit of £2 2s. 0d., which will be returned on receipt of a bona fide tender and the return of all the documents.

Tenders on the forms provided in a plain sealed envelope, appropriately endorsed, "Tender—22 Garages," bearing no mark or indication of the sender must reach the undersigned not later than noon, 29th MARCH, 1960.

The Council do not bind themselves to accept the lowest or any tender.

W. C. F. GODSELL,
Clerk of the Council

Council Offices,
Leyland,
Lancs.
March, 1960.

COUNTY BOROUGH OF WALLASEY

EGERTON GROVE SCHOOL. EXTENSIONS AND ADDITIONS.

TENDERS, to reach the undersigned by 21st MARCH, 1960, are invited for the CONSTRUCTION OF A SINGLE-STOREY ASSEMBLY HALL/DINING ROOM, KITCHEN AND ANCILLARY ACCOMMODATION at Egerton Grove School, Wallasey.

Bills of Quantities and Form of Tender available from the Borough Architect, Town Hall, Wallasey.

A. G. HARRISON,
Town Clerk.

BOROUGH OF WATFORD.

PROPOSED ERECTION OF ONE DETACHED HOUSE, MURIEL-AVENUE, WATFORD.

TENDERS are invited for the ERECTION OF ONE DETACHED HOUSE at Muriel-avenue, Watford.

Applications for documents, accompanied by a deposit of £2 2s. which will be returned on receipt of a bona fide Tender not subsequently withdrawn, must be made to Mr. F. C. Sage, Borough Engineer and Surveyor, Town Hall, Watford, not later than 2 p.m. on MONDAY, 14th MARCH, 1960.

Contract documents will be forwarded as soon as possible after that date and Tenderers will then be informed of the latest date for the receipt of Tenders.

GORDON H. HALL,
Town Clerk.

Town Hall,
Watford.

COUNTY OF LINCOLN.

PARTS OF KESTEVEN.

ERECTION OF SECONDARY MODERN SCHOOLS AT BILLINGBOROUGH, BILLINGHAY AND CORBY GLEN.

Contractors willing to TENDER for any or all of the above works are invited to submit their names to the County Architect, County Offices, Sleaford, Lincs, by not later than the 16th MARCH, 1960.

Selected firms will be supplied with Tender documents and must submit their Tender(s) to the undersigned by not later than 10 a.m. on the 20th APRIL, 1960.

J. E. BLOW,
Clerk of the County Council.

County Offices,
Sleaford,
Lincs.

BOROUGH OF CHELMSFORD.

15-STOREY FLATS, MELBOURNE-AVENUE.

The Council propose to ERECT ONE BLOCK OF 58 FLATS TOGETHER WITH EXTERNAL STORES, GARAGES and other ancillary works to a design prepared by the Borough Engineer and Surveyor.

Contractors are invited to submit their names to be considered for inclusion in a selected list. For full particulars apply to the Borough Engineer and Surveyor, Municipal Offices, Coval-lane, Chelmsford, before the 16th MARCH, 1960.

B. A. FRANCIS,
Town Clerk.

HOLYWELL URBAN DISTRICT COUNCIL.

PROPOSED ROADS, SEWERS AND WATER MAINS, STAGE III.

FIXED PRICE TENDERS are invited from competent Contractors for the above. The works include the CONSTRUCTION OF CARRIAGEWAY AND FOOTPATHS, STREET LIGHTING, SURFACE WATER AND SOIL SEWERS AND MANHOLES AND WATER MAINS.

The total length of the roads are approximately 290 yards.

Copies of the Bills of Quantities may be obtained upon application to the Engineer and Surveyor, Mr. W. Isherwood, A.M.I.Mun.E., A.I.Hsg., at the undermentioned address upon payment of a deposit of £2 which will be refunded on receipt of a bona fide Tender not subsequently withdrawn, and the return of all documents.

Working drawings may be inspected at the office of the Engineer and Surveyor during usual office hours.

Tenders in endorsed envelopes provided and addressed to the undersigned, must be received by SATURDAY, 2nd APRIL, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. KERFOOT ROBERTS,
Clerk to the Council.

Town Hall,
Holywell,
Flintshire.

OXFORDSHIRE COUNTY COUNCIL.

Contractors wishing to TENDER for any of the following building projects are invited to submit their names to the County Architect, Park End-street Offices, Oxford, within fourteen days of the appearance of this advertisement.

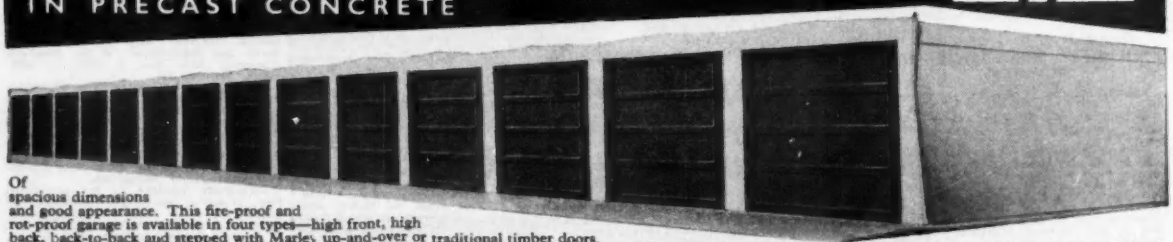
1. Banbury Grammar School. ERECTION OF NEW BUILDINGS (SCIENCE BLOCK AND GYMNASIUM/CHANGING ROOM BLOCK) in brick built construction together with ALTERATIONS TO EXISTING SCHOOL.
2. Banbury, Easington Boys' Secondary School. EXTENSIONS TO EXISTING SCHOOL BY THREE CLASSROOMS AND RURAL SCIENCE LABORATORY in traditional construction.
3. Littlemore, Northfield Secondary School. NEW BUILDINGS COMPRISING ASSEMBLY HALL, NEW TWO-STOREY TEACHING BLOCK AND NEW PRACTICAL BLOCK to be ERECTED with reinforced concrete frame and shell concrete roof to Assembly Hall Block and concrete barrel vault roof to Practical Block.
4. North Kidlington Proposed C.P. Infants' School. ERECTION OF A THREE-CLASS SCHOOL WITH ASSEMBLY HALL in traditional and timber framing construction.

The Council reserves the right to select from the list of applications the firms to be invited to submit tenders and do not undertake to accept the lowest or any tender.

GERALD GALE BURKITT,
Clerk of the Council.

County Hall,
Oxford.
26th February, 1960.

MARLEY MULTIPLE GARAGES
IN PRECAST CONCRETE



Of spacious dimensions and good appearance. This fire-proof and rot-proof garage is available in four types—high front, high back, back-to-back and stepped with Marley up-and-over or traditional timber doors.
Low initial cost. Virtually maintenance free. *Marley will supply and deliver only or supply and erect. Installed for hundreds of Local Authorities.* Site work can also be undertaken, if required. We shall be pleased to submit quotations on request. Marley make the best garages.
MARLEY CONCRETE LIMITED Dept. 717, Peasmarsh, Guildford, Surrey (Head Office) Guildford 69171. Shurdington, Nr. Cheltenham, Glos. Shurdington 334/5. Hatchpond Road, Waterloo, Poole, Dorset. Broadstone 626. London Showrooms: 251 Tottenham Court Road, W.1.

BOROUGH OF MAIDSTONE.

RINGLESTONE ESTATE.
PROPOSED ERECTION OF TWO BLOCKS OF SIX ONE-BEDROOM FLATS.

TENDERS are invited from bona fide Contractors for the above scheme on two sites at this Estate. Contractors should apply to the Borough Surveyor, Palace-avenue, Maidstone, by not later than 12th MARCH, 1960.

The Tender documents will be sent to all Contractors about the middle of March.

T. SCHOLES,
Town Clerk.

13 Tonbridge-road,
Maidstone.
29th February, 1960.

NORTHFLEET URBAN DISTRICT COUNCIL.

EXTERIOR PAINTING OF COUNCIL DWELLINGS.

The Council invite TENDERS for the EXTERIOR PAINTING of 106 HOUSES AND BUNGALOWS on the Wombwell Park Estate.

Contract No. 2—52 HOUSES.
Contract No. 3—48 HOUSES. 6 BUNGALOWS.

Contractors may tender for one or both contracts, but each contract must be tendered for separately.

Specifications and Forms of Tender may be obtained from the Housing Manager, Housing Department, Town Hall, Northfleet.

Tenders should be enclosed in plain sealed envelopes marked "Exterior Painting—Contract No. ....." and should reach the undersigned by NOON on TUESDAY, the 22nd MARCH, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

DREWERY F. BUNKALL,
Clerk of the Council.

Town Hall,
Northfleet, Kent.
March, 1960.

ATTENTION ADVERTISERS

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

PUBLIC APPOINTMENTS

BOROUGH OF GUILDFORD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for:—

(a) SENIOR ENGINEERING ASSISTANT. Special Grade (£785-£1,070).

(b) ARCHITECTURAL ASSISTANT, A.P.T. II (£765-£880).

(c) ARCHITECTURAL ASSISTANT, A.P.T. I (£610-£765).

For (a) applicants must have passed the Testamur of the Institution of Municipal Engineers or equivalent, and have considerable experience in general Municipal or Civil Engineering.

For (b) applicants should have passed the Intermediate Examination of the R.I.B.A. and have experience in general Architectural work.

For (c) applicants should have had a good training in design and construction in general Architectural work.

Applications, with the names and addresses of two referees, must be sent to the Borough Engineer and Surveyor, Municipal Offices, High-street, Guildford, by TUESDAY, 22nd MARCH, 1960.

HERBERT C. WELLER,
Town Clerk.

QUANTITY SURVEYORS

(men and women): MINISTRY OF HEALTH. Pensionable posts (three Main Grade, two Basic Grade) in London for Associate and Corporate Members of the Royal Institution of Chartered Surveyors (Quantities Section). The expanding hospital programme offers opportunities to work in a team engaged in devising new and experimental techniques of cost research, planning and control, preparation of bills of quantities and examination of schemes for hospital buildings. Previous experience of hospital work is not essential. Men's salary scales: Main Grade £1,325-£1,780 (starting salary may be above minimum); Basic Grade £830-£1,300 (starting salary up to £1,125 according to age). Promotion prospects. —Write Civil Service Commission, 17 North Audley-street, London, W.1, for application form, quoting S.5103/60. Closing date 15th MARCH, 1960.

PADDINGTON BOROUGH COUNCIL.

DRAUGHTSMAN (£640-£795).

Starting salary according to qualifications and experience. Suitable for probationer member, R.I.B.A. Applications should state age, experience, present and past appointments, names of two referees and should reach me by 21st MARCH, 1960 (quoting A.460).

W. H. BENTLEY,
Town Clerk.

Town Hall,
Paddington, W.2.

SALOP COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of CLERK OF WORKS to supervise the erection of new schools and other public buildings. Salary up to £17 17s. 0d. per week, depending on ability and experience. An expenses allowance of 30s. a week will be paid for a maximum period of two years to a married man appointed, whilst he is separated from his family.

Forms of application obtainable from the County Architect, Column House, London-road, Shrewsbury. Closing date for applications: 16th MARCH, 1960.

BOROUGH OF EDMONTON.

BOROUGH ARCHITECT'S DEPARTMENT.

QUANTITY SURVEYING ASSISTANT.

Candidates should have passed the Intermediate examination of the Royal Institute of Chartered Surveyors. Time off and financial assistance for study. Five-day week. Salary within rate A.P.T. II, £765-£880 per annum plus London Weighting £10-£30 according to age.

Applications on forms obtainable from the Town Clerk, Town Hall, Edmonton, must be delivered by the 19th MARCH, 1960.

BOROUGH OF NEWARK-ON-TRENT.

ARCHITECTURAL ASSISTANT.

Applications invited for the above appointment in the Borough Surveyor's Department at a salary according to experience in A.P.T. Grade III, £880-£1,065.

Housing accommodation available if required.

Appointment subject to National Scheme of Conditions of Service, Superannuation Acts, and one month's notice on either side.

Applicants with experience in Municipal Housing in addition to other architectural work should submit their applications, stating age, qualifications, experience and names and addresses of two referees, to the Borough Surveyor at the Municipal Buildings, Balderton Gate, Newark, by 16th MARCH, 1960.

J. H. M. GREAVES,
Town Clerk.

Municipal Buildings,
Newark-on-Trent.
26th February, 1960.

CITY OF BELFAST.

Applications are invited for the following posts:—

EDUCATION DEPARTMENT:

(a) ARCHITECT CLASS I.

Applicants must be registered and qualified by examination, and should be capable of supervising architectural staff. Preference given to those with experience in modern school design and construction.

Salary: £1,010 x 6/40 x £50-£1,300 per annum.

(b) ARCHITECT CLASS II.

Applicants must be registered architects with experience in general design and construction of modern buildings.

Salary: £825 x 6/35 x £40-£1,075 per annum.

(c) ARCHITECTURAL ASSISTANT CLASS I.

Applicants must have passed the Intermediate Examination of the R.I.B.A., and should have a sound practical experience in general design and construction of modern buildings.

Salary: £610 x 6/30 x 2/40 x £35-£905 per annum.

(d) ARCHITECTURAL ASSISTANT CLASS II (Temporary).

Applicants should have good general education and be neat draughtsmen. Experience in land surveying an advantage.

Wages at the rate of £285 x 2/30 x £35 x 4/30 x £40 x £35-£575 per annum.

Commencing remuneration determined according to qualifications and experience. Superannuation contributions of approximately 6 per cent. of remuneration payable.

Canvassing will disqualify.

Application forms, etc., obtainable from Education Offices, 40 Academy-street. Completed applications must reach the undersigned by FRIDAY, 25th MARCH, 1960.

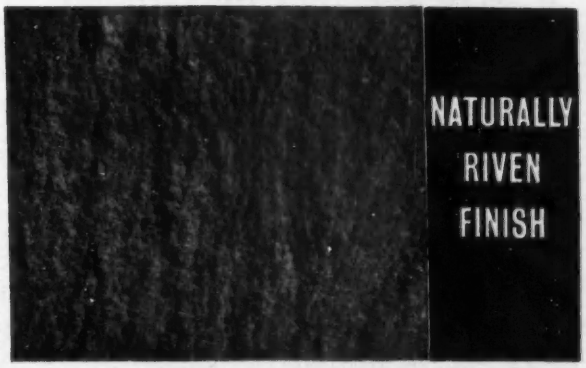
JOHN DUNLOP,
Town Clerk.

City Hall,
Belfast.
P.O. Box 234.
25th February, 1960.

Lasting beauty

in Broughton Moor

Green Slate



Technical pamphlets showing typical methods of fixing are available on application:
1. Flooring 2. Facings. 3. Coping. 4. Cills 5. Riven Face Slabs.

In three distinct colours Light Sea Green, Olive Green and Pale Green Barred

Broughton Moor
GREEN SLATE QUARRIES LTD.

CONISTON, THE LAKE DISTRICT, LANCS. Tel: CONISTON 225/6

NORTH EAST METROPOLITAN REGIONAL HOSPITAL BOARD.

SENIOR ASSISTANT ARCHITECTS. Salary £1,100-£1,295; Scales under review. (New entrants commence at minimum.) Applicants must be registered Architects having passed the requisite examinations and must be good designers, capable of preparing working drawings and specifications for, and undertaking the supervision of, all types of building projects. The Board is engaged in an expanding programme of hospital development and the appointments offer exceptional opportunities of gaining experience in designing and supervising the construction of hospital buildings.

Own car may be used for visiting hospitals, etc., for which adequate mileage allowance paid. Posts pensionable and excellent prospects of promotion. Previous hospital experience is NOT essential.

Application forms from Secretary, North East Metropolitan Regional Hospital Board, 40 Eastbourne-terrace, W.2.

COUNTY BOROUGH OF BOOTLE.

BOROUGH SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of an ASSISTANT ARCHITECT on Grades III/IV (£880 to £1,220 per annum). Preference will be given to those having experience in the design and planning of houses and public buildings.

Application Forms from the Borough Surveyor, Town Hall, Bootle, 20, Lancs., are returnable by FRIDAY, 18th MARCH, 1960.

HAROLD PARTINGTON,
Town Clerk.

MANCHESTER CORPORATION TRANSPORT DEPARTMENT

REQUIRE

a RATEFIXER to assist in the timing and measurement of work of a Building Maintenance nature together with reconstruction work. Salary £715 to £775 per annum.

Application forms and details of duties and responsibilities are obtainable from the General Manager, 55 Piccadilly, Manchester 1, returnable by 7th MARCH, 1960.

COUNTY OF ESSEX.

BOROUGH OF WALTHAMSTOW COMMITTEE FOR EDUCATION.

Applications are invited for the following appointments in the office of the Education Architect.

(a) SENIOR ASSISTANT ARCHITECT, within A.P.T. Grade IV, £1,065-£1,220 per annum plus London Weighting.

Applicants should be Associate Members of the R.I.B.A. Experience in school design, construction and contract administration essential.

(b) ASSISTANT ARCHITECT, within Special Grade, £785-£1,070 per annum plus London Weighting.

Applicants must have passed Parts I and II of the Final Examination of the R.I.B.A. Experience in school design and construction an advantage.

(c) ASSISTANT BUILDING SURVEYOR, within A.P.T. Grade II, £765-£880 per annum plus London Weighting.

Applicants should hold the R.I.B.A. Building Surveyors Diploma or have passed inter R.I.C.S. (Building Section) and have had experience in preparing reports, estimates, specifications and supervising repair and maintenance of buildings.

The building programme includes a number of new schools, extensions to and major remodelling of existing schools.

The Council will make up to 100 per cent advances to successful applicants for house purchase in this or adjoining boroughs.

Forms of application to be obtained from and returned to the Borough Education Officer, Town Hall, Forest-road, Walthamstow, E.17, within two weeks of the appearance of this notice.

RUTLAND COUNTY COUNCIL.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the appointment of ASSISTANT ARCHITECT within the Special Scale of £785-£1,070 per annum according to qualifications and experience.

The department is engaged on a building programme of new schools and extensions of existing schools and the post offers opportunity of responsibility and interesting work.

The post is subject to the Local Government Superannuation Act, 1937-1953 and the National Scheme of Conditions of Service.

Applications giving full particulars of age, qualifications, and experience, with the names of two referees, should be sent to T. Brian Kenuedy, A.R.I.B.A., M.T.P.I., County Architect and Planning Officer, County Offices, Oakham, not later than 14th MARCH, 1960.

A. BOND,
Clerk of the County Council.

County Offices,
Oakham.
Rutland.

CITY OF SALFORD.

DIRECT WORKS DEPARTMENT.

Applications are invited from suitable qualified persons for the following appointment in the above Department:—

TECHNICAL ASSISTANT (Electrical and Heating). Grade A.P.T. II-III. Salary £765 to £1,065 per annum.

Applicants must have had considerable experience in the preparation of estimates for electrical and heating contracting, together with the preparation of specifications for minor alterations and adaptations. Preference will be given to persons holding suitable qualifications, e.g. A.M.I.H. and A.M.I.E.E.

This post is superannuable and subject to a Medical Examination.

Housing accommodation may be considered in approved circumstances.

Applications, giving details of present and previous appointments, qualifications and experience, together with the names and addresses of two referees, should be sent to the General Manager, Direct Works Department, Unwin-street, Crosslane, Salford, 6, so as to be received not later than MONDAY, 14th MARCH, 1960.

R. RIBBLESDALE THORNTON,
Town Clerk.

COUNTY BOROUGH OF BLACKBURN.

CENTRAL AREA RE-DEVELOPMENT.

In connection with this scheme applications are invited for the following posts.

ARCHITECTURAL.

SENIOR ARCHITECTURAL ASSISTANT, Grade Scale "A," £1,255 to £1,420.

ARCHITECTURAL ASSISTANT, Grade A.P.T. 4, £1,065 to £1,220.

ARCHITECTURAL ASSISTANT, Grade A.P.T. Special, £785 to £1,070.

ARCHITECTURAL ASSISTANT, Grade A.P.T. 2, £765 to £880.

Candidates must have the necessary qualifications and experience relative to the Grade. Housing accommodation will be available if required.

Application forms (from the Borough Engineer, Town Hall, Blackburn), are to be returned by 17th MARCH.

FRANK SQUIRES,
Town Clerk.

BOROUGH OF TOTTENHAM.

BUILDING MANAGER. Established Post. Salary £1,250 p.a., rising to £1,405 p.a. Good managerial experience of Building Trade required including maintenance and new construction, estimating, costing of building works and incentive bonus schemes. Car allowance. Form and particulars from Borough Engineer, (B), Town Hall, Tottenham, N.15, to whom applications must be delivered not later than 18th MARCH, 1960.

COUNTY BOROUGH OF EAST HAM.

ASSISTANT PLANNING OFFICER, Grade A.P.T. I, £610-£765.

Vacancy in Borough Engineer's Department. London Weighting paid in addition. Salary above minimum paid according to qualifications and experience.

A subsistence allowance may be paid over a reasonable period to person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Details and application form from the Town Clerk, E.6.

Closing date 18th MARCH, 1960.

COUNTY BOROUGH OF SOUTHEND-ON-SEA.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following posts:—

ASSISTANT ARCHITECT, Special Classes Scale (£785 x £40(6) x £45-£1,070).

TECHNICAL ASSISTANT (ARCHITECTURAL), Grade A.P.T. II (£765 x £25(1) x £30(3)-£880).

ASSISTANT QUANTITY SURVEYOR, Special Classes Scale (£785 x £40(6) x £45-£1,070).

STUDENT HEATING ENGINEER (General Division salary range £210-£655).

A flat is available for a suitable candidate.

Candidates must be suitably qualified and experienced.

The appointments will be subject to the provisions of the Local Government Superannuation Acts and the National Joint Council's Scheme of Conditions of Service so far as adopted by the Council. Medical examination.

Applications, stating age, qualifications and experience, with the names of two referees, should be submitted to the Borough Architect, 30 Alexandra-street, Southend-on-Sea, forthwith.

Canvassing will disqualify. Any candidate who is related to member or officer of the Council is required to disclose the fact.

ARCHIBALD GLEN,
Town Clerk.

CHESHIRE COUNTY ARCHITECT'S DEPARTMENT.

HEADQUARTERS AND DISTRICT OFFICE, CHESTER.

Applications, on forms obtainable from me, are invited for the following appointments. Five-day week:

SENIOR ARCHITECTURAL ASSISTANT, A.P.T. IV, £1,065 x 1 at £55 and 2 at £50-£1,220 p.a.

SENIOR ARCHITECTURAL ASSISTANT, A.P.T. III, £880 x 3 at £35 and 2 at £40-£1,065 p.a.

ARCHITECTURAL ASSISTANTS: A.P.T. II, £765 x 1 at £25 and 3 at £30-£880 p.a.

JUNIOR ARCHITECTURAL ASSISTANTS, A.P.T. I, £610 x 4 at £30 and 1 at £35-£765 p.a.

EDGAR TABERNER, A.R.I.B.A.,
County Architect.

County Hall,
Chester.
26th February, 1960.

COUNTY BOROUGH OF EAST HAM.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following temporary appointment:

SENIOR ASSISTANT ARCHITECT, Grade IV, £1,065-£1,220.

London Weighting is paid in addition, and a salary in excess of the minimum may be paid according to qualifications and experience. The appointment is for work on a new Technical College and is expected to be for a period of not less than 3 years.

Further details and application forms returnable by 17th MARCH, 1960, from the Town Clerk, Town Hall, East Ham, E.6.

CITY OF BIRMINGHAM.

DEPUTY CITY ARCHITECT.

Applications are invited from suitably qualified Architects for the appointment of DEPUTY CITY ARCHITECT, at a salary of £2,870 per annum, rising by annual increments of £100 to a maximum of £3,370 per annum.

A memorandum giving details about the scope of the appointment and general conditions may be obtained from the undersigned.

Applications must be received by me not later than 18th MARCH, 1960.

A. G. SHEPPARD FIDLER,
City Architect.

Civic Centre,
Birmingham, 1.

LINDSEY (LINCOLNSHIRE) COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Owing to re-organisation of the Department to cope with large and interesting programme of work, the following vacancies occur:—

(a) ARCHITECTURAL ASSISTANTS, Grade A.P.T. 3, £880-£1,065.

(b) ENGINEERING ASSISTANT, Grade A.P.T. 3, £880-£1,065.

(c) QUANTITY SURVEYING ASSISTANT, Grade A.P.T. 2, £765-£880.

(d) QUANTITY SURVEYING ASSISTANT, Grade A.P.T. 1, £610-£765 or Miscellaneous 3, £525-£590.

(e) AREA CLERK OF WORKS, Grade A.P.T. 2, £765-£880.

Applicants for (a) experienced with a sound knowledge of construction to complete the middle section of a team; (b) Qualified by experience or graduate I.H.V.E. and able to prepare designs for heating schemes; (c) preferably Intermediate R.I.C.S. and able to abstract and Take off for smaller jobs; (d) grade offered according to experience but applicants must be able to abstract; (e) to take charge of area centred on Skegness and be responsible for supervision of major schemes and many minor schemes.

Commencing salary within the grade dependent upon experience. N.J.C. Conditions of Service. Canvassing will disqualify. Candidates must disclose in writing whether to their knowledge they are related to any Member or Senior Officer of the Council.

Applications, giving age, qualifications, experience, present post and salary, and the names of two persons to whom reference can be made, to be sent to the County Architect, County Offices, Lincoln, not later than 10th MARCH, 1960.

COUNTY BOROUGH OF ROCHDALE.

BOROUGH SURVEYOR'S DEPARTMENT.

Applications are invited from suitably qualified persons for: (1) ASSISTANT ARCHITECT; (2) QUANTITY SURVEYOR; in both cases on Special Classes scale (£785-£1,070 p.a.).

The Corporation make 100 per cent loans for house purchase in approved cases.

Applications stating age, qualifications, experience and names of 2 referees, to Borough Surveyor, Town Hall, Rochdale, by 19th MARCH.

Canvassing will disqualify. Relationship to any member or senior official of the Council must be disclosed. Appointments subject to medical examination.

OXFORD REGIONAL HOSPITAL BOARD.

CONTEMPORARY HOSPITAL BUILDINGS.

ARCHITECTS who wish to work (in association with W. J. Jobson, Regional Architect) on projects in this most interesting field of development are invited to apply for the following permanent posts:

SENIOR ASSISTANT ARCHITECT, £1,050 to £1,245 per annum;

ASSISTANT ARCHITECT, £730 to £1,055 per annum;

(Salaries are at present under review).

Previous hospital experience is not necessary. Further particulars may be obtained from the Secretary, 43 Banbury-road, Oxford, and applications, quoting two referees, should be received not later than 18th MARCH, 1960.

COUNTY BOROUGH OF GRIMSBY.

BOROUGH SURVEYOR AND ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ARCHITECTS.

Applications are invited for the following appointments on the permanent staff of the Department:—

(a) SENIOR ARCHITECT, Grade A.P.T. V, Salary £1,220-£1,375 per annum.

(b) A GENERAL ARCHITECT, Special Grade, Salary £785-£1,070 per annum.

Applicants for appointment (a) should have passed the Final Examination of the R.I.B.A., and for appointment (b) should have passed the Intermediate Examination.

The appointments will be subject to the Conditions of Service of the National Joint Council, terminable by one month's notice on either side, and to the provisions of the Local Government Superannuation Acts. The successful candidate will be required to pass a medical examination.

Applications, stating age, qualifications, present and past appointments, and details of experience, together with the names and addresses of two referees, must be forwarded to the undersigned not later than first post on MONDAY, 14th MARCH, 1960.

J. V. OLDFIELD,
L.R.I.B.A., F.R.I.C.S.,
Borough Surveyor and Architect.

Municipal Offices,
Grimsby.
February, 1960.

BOROUGH OF SOLIHULL.

APPOINTMENT OF ASSISTANT ARCHITECTS.

Following a review of the establishment of the Architect's Section of the Borough Surveyor's Department, applications are now invited from architects having suitable experience for appointment as ASSISTANT ARCHITECTS, at a salary in accordance with A.P.T. Grade IV (£1,065 per annum rising by annual increments of £50 and £55 to a maximum of £1,220 per annum).

Solihull has a population of approximately 90,000 and is still expanding rapidly. It is seeking County Borough status and is an Excepted District under the Education Acts. It has approximately £260,000 of education building under construction at the present time. The 1960-61 programme includes work of approximately £380,000 in value and the future programme includes new primary and secondary schools, nursery schools, extensions and adaptations, and a considerable number of minor capital works.

In suitable cases housing accommodation will be provided as soon as possible and half removal expenses paid.

The appointment is subject to the provisions of the Local Government Superannuation Acts, to the National Scheme of Conditions of Service and to one month's notice on either side.

Applications, giving full particulars as to present and past appointments, experience and qualifications held, should be submitted to the Borough Surveyor, 90 Station-road, Solihull, so as to reach him not later than 15th MARCH, 1960.

W. MAURICE MELL,
Town Clerk.

The Council House,
Solihull,
Warwickshire.
19th February, 1960.

CITY AND COUNTY OF BRISTOL.

HOUSING DEPARTMENT.

Applications invited for TECHNICAL ASSISTANTS. Salary Grade A.P.T. II, £765-£880.

Applicants should have passed Intermediate examination of Royal Institution of Chartered Surveyors or hold a similar qualification and be experienced in preparation of plans, specifications and estimates, particularly in connection with adaptation and improvement of existing buildings. Knowledge of incentive bonus schemes and improvement grants an advantage.

Forms of application from Housing Manager, Council House, Bristol, returnable by 18th MARCH.

ADMINISTRATIVE
COUNTY OF LEICESTER.

COALVILLE PROPOSED GRAMMAR SCHOOL.

RESIDENT CLERK OF WORKS Required for the above project. Applicants should be capable of dealing with contracts up to £200,000. Knowledge of reinforced concrete an advantage. Salary £765-£880 according to ability and experience. Apply by 14th MARCH, 1960, on forms obtainable from County Architect, 123 London-road, Leicester.

AIR MINISTRY

Works Designs Branch Requires in London CIVIL ENGINEERING DESIGNER DRAUGHTSMEN with adequate training and drawing office experience in one or more of the following: (a) Roads, pavements, earthworks and stormwater drainage; (b) foul drainage and sewage disposal; (c) water supply and distribution. Some site experience and possession of recognised technical qualification an advantage. Financial assistance and time off may be allowed for recognised courses of study. Promotion and pension prospects. Five-day week with 18 working days' leave per year initially.

Salary ranges from £680 (at age 25) to £900 p.a. Commencing salary dependent on age, qualifications and experience. Applicants, who must be natural born British subjects, should write to Air Ministry, W.G.c., Lacon House, Theobalds-road, London, W.C.1, or to any Employment Exchange (quoting Order No. Kings Cross 3746), giving age, details of training, qualifications, full particulars of former posts held and copies of any testimonials. Candidates selected will normally be interviewed in London and certain expenses reimbursed.

METROPOLITAN
BOROUGH OF SOUTHWARK.

Applications are invited for the following appointments in the Borough Engineer and Surveyor's Department:—

ARCHITECTURAL ASSISTANTS, A.P.T. I (£640 to £795 p.a.) or A.P.T. II (£795 to £910 p.a.). Vacancies in design groups dealing with mixed housing and other development. Applicants shou'd possess Intermediate R.I.B.A. for A.P.T. II.

If under 26 years of age, the salaries will be £10 per annum less.

The Council has a large programme for housing development on sites already available, or scheduled for clearance within the next ten years. In addition, a number of public building projects are envisaged, including new public baths within the Elephant and Castle Development Area.

Applicants are requested to attach to their application forms, in typescript if preferred, brief details of their experience, particularly under the following headings:—

(a) housing schemes
(b) public buildings
(c) other buildings
(d) office organisation
(e) site supervision.

Please indicate clearly the post and grade applied for.

Council's Conditions of Service of Officers and Superannuation Scheme apply. Medical examination. No housing. Canvassing will disqualify. Further particulars from the undersigned. Closing date 30th MARCH, 1960.

E. J. PITT,
Town Clerk.

Southwark Town Hall
(Near Elephant & Castle Underground Station),
Walworth-road,
S.E.17

MIDHURST RURAL
DISTRICT COUNCIL.

GENERAL TECHNICAL ASSISTANT.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the above appointment at a salary in accordance with Grade A.P.T. I (£610-£765 per annum). Commencing salary according to experience.

The duties will be clerical and supervisory and will include the management of certain routine services under the direction of the head of the Department. Preference will be given to applicants with experience of book-keeping, stores, vehicle and plant maintenance, public cleansing, housing repairs supervision and knowledge of surveying and levelling procedure.

Applicants should be able to drive and provide a car for which an essential user car allowance will be paid. Assistance will also be given with housing accommodation and removal expenses in a suitable case.

Applications giving particulars of age, qualifications, experience and present appointment, together with the names and addresses of two referees must be received by the undersigned not later than 26th MARCH, 1960.

D. L. BLAY,
Clerk of the Council.

Council Offices,
Midhurst,
Sussex.

URBAN DISTRICT
COUNCIL OF PONTYPOOL.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the post of ARCHITECTURAL ASSISTANT on the Staff of the Council's Architect at a salary within the Special Scale £785-£1,070. The commencing salary will be according to qualifications and experience.

Applicants must be registered Architects and preference will be given to members of the R.I.B.A.

The successful applicant will be mainly employed on Council Housing projects and should have experience in house design, construction and layout. Experience in quantities would be an advantage.

The post will be subject to the provisions of the Local Government Superannuation Act, 1937, and the National Conditions of Service. The successful applicant will be required to pass medical examination, and the appointment will be subject to one month's notice on either side.

Housing accommodation, if necessary, will be provided for the successful applicant.

Applications stating age, qualifications, experience, and present post and salary, accompanied by copies of two recent testimonials, should be delivered to the Architect to the Council, Council Offices, Pontymoel, Pontypool, Mon. not later than FIRST POST on MONDAY, 21st MARCH, 1960.

H. COOK,
Clerk of the Council.

Municipal Buildings,
Pontypool, Mon.

BUCKS. COUNTY
COUNCIL.

Applications are invited for the appointment of an ASSISTANT QUANTITY SURVEYOR in the County Architect's Department on Grade A.P.T. I, £610 to £765 p.a.

The appointment is superannuable and subject to medical examination and applicants should have passed the intermediate examination of the Royal Institute of Chartered Surveyors.

A weekly allowance of 25s. and return fare home once every two months may be made for six months to newly appointed married officers of the Council unable to find accommodation.

Applications, on forms provided, must be returned by 21st MARCH, 1960.

F. B. POOLEY,
County Architect.

County Offices,
Aylesbury.

METROPOLITAN
BOROUGH OF GREENWICH.

APPOINTMENT OF JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the position of JUNIOR ARCHITECTURAL ASSISTANT in the Borough Engineer and Surveyor's Department. Salary A.P.T. I (£610 to £765 per annum plus London Weighting), commencing salary in accordance with experience.

Preference will be given to applicants with experience of architectural drawing who have made suitable progress towards completion of the examination of the R.I.B.A. or R.I.C.S. Facilities available for study on one day per week.

Form of application obtainable from Town Clerk, Town Hall, Greenwich, S.E.10, and returnable by noon on MONDAY, 21st MARCH, 1960.

G. C. TURK,
Town Clerk.

Town Hall,
Greenwich, S.E.10.
March, 1960.

COUNTY COUNCIL OF
ESSEX.

Two ASSISTANT ARCHITECTS interested in gaining experience (with continuity of work) on new office buildings, libraries, colleges and schools. Previous local government experience not essential.

Salary: £785-£1,070.

Apply: County Architect, County Hall, Chelmsford.

BOROUGH OF SLOUGH.

Applications invited for appointment of ASSISTANT BUILDING INSPECTOR. Grade A.P.T. II (£765 rising to £880 per annum), together with "Essential User" Car Allowance of £120 per annum. Five-day week but periodic Saturday morning attendance with time off in lieu. Opportunity to widen experience in rapidly expanding town. Applicants must be in possession of the Building Inspector's Certificate of Institution of Municipal Engineers or the Building Surveyor's Certificate of the Royal Institute of British Architects.

Applications, stating age, experience, qualifications, etc., and names and addresses of 2 referees, to reach Borough Engineer, Town Hall, Slough, Bucks., by 21st MARCH, 1960.

BOROUGH OF ENFIELD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the post of ARCHITECTURAL ASSISTANT, Grade A.P.T. I (£610-£765 per annum, plus a London Weighting Allowance of £10-£30 per annum according to age).

Applicants must have had experience in the preparation of plans, specifications, etc., including the maintenance of public buildings.

Saturday mornings are normally free of duty.

Application forms obtainable from H. D. Peake, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middlesex, returnable to the undersigned.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Enfield,
Middlesex.

BOROUGH OF
POOLE.

APPOINTMENT OF ASSISTANT ARCHITECT,
Special Grade (£785-£1,070).

Applications are invited for the above appointment. Candidates should have passed the appropriate professional examinations. Starting salary will depend on age and experience.

This is an appointment to deal with a rapidly expanding capital programme, and the work will be interesting and varied, but experience in educational projects would be an advantage.

Application forms from the Borough Engineer, Municipal Buildings, Poole, to be returned to me by FRIDAY, 11th MARCH, 1960.

J. G. HILLIER,
Town Clerk.

CITY OF CANTERBURY.

Applications are invited from persons who have passed the Final Examination of the R.I.B.A. for the appointment of an ASSISTANT ARCHITECT, Special Scale (£785-£1,070). Commencing salary according to qualifications and experience.

Applicants should have had good general experience and be capable of preparing accurate working drawings.

Housing accommodation available if required.

Applications, together with the names of two referees, must reach the City Architect and Planning Officer, Mr. John L. Berbiers, F.R.I.B.A., A.M.T.P.I., not later than THURSDAY, 10th MARCH, 1960.

Canvassing will disqualify.

J. BOYLE,
Town Clerk.

Municipal Buildings,
Canterbury.

BATTERSEA BOROUGH

COUNCIL Require an ASSISTANT CLERK OF WORKS (BUILDING) for a minimum period of two years. Inclusive salary 15 guineas per week.

Applications giving full details of past experience, age, etc., to the Borough Engineer and Surveyor, Town Hall, S.W.11 by 21st MARCH, must include the names of two referees.

ISLE OF WIGHT COUNTY
COUNCIL.

PLANNING ASSISTANT (ARCHITECTURAL) required. Salary A.P.T. Special Grade—£785-£1,070. Permanent post. Candidates should be suitably qualified. Experience in the Planning Department of a local authority essential; preference given to candidates with architectural bias by training or experience.

Applications, on forms obtainable from the Clerk of the County Council, County Hall, Newport, I.W. Closing date 14th MARCH, 1960.

SALOP COUNTY
ARCHITECT'S DEPARTMENT.

Applications are invited from Chartered Quantity Surveyors for the appointment of PRINCIPAL ASSISTANT QUANTITY SURVEYOR. Salary Grade A.P.T. V (£1,220 rising by annual increments to £1,375 p.a.). N.J.C. Conditions of Service will apply. A disturbance allowance or weekly separation allowance may be paid to a married man taking up the appointment. Conditions of service and application form obtainable from Ralph Crowe, A.A.Dipl., A.R.I.B.A., A.M.T.P.I., County Architect, Column House, London-road, Shrewsbury. Closing date 15th MARCH, 1960.

RURAL DISTRICT
COUNCIL OF MARSHLAND.
RURAL DISTRICT COUNCIL OF WISBECH.

ARCHITECT'S DEPARTMENT.

Applications are invited for the TEMPORARY APPOINTMENT OF ASSISTANT ARCHITECT. Special class scale, £785-£1,070.

Consideration will be given to provision of housing accommodation if required.

The appointment is on the temporary staff of the Architect. Applications, stating age, qualifications, and experience, together with the names of two referees, should be submitted to the Architect, Council Offices, Alexandra-road, Wisbech, Cambs., not later than 12th MARCH, 1960.

RONALD E. DIXON,
Clerk of the Councils.

Council Offices,
Alexandra-road,
Wisbech, Cambs.
20th February, 1960.

COUNTY BOROUGH OF
GATESHEAD.

Applications invited for the following posts in the Borough Surveyor's Department to work under the Chief Architect upon an interesting programme of schools, housing (including multi-storey flats) and public buildings.

(a) JUNIOR ARCHITECTURAL ASSISTANTS, A.P.T. I-III (£610-£1,065).
(b) ARTICLED PUPILS, on General Division (£210-£595) according to age.
(c) ASSISTANT QUANTITY SURVEYOR, Special Grade (£785-£1,070).
(d) JUNIOR QUANTITY SURVEYORS, A.P.T. I-III (£610-£1,065).
(e) LEARNER QUANTITY SURVEYORS, General Division (£210-£595) according to age.

Salaries within the above scales, except (b) and (c) according to qualifications and experience. Local Government experience not essential.

Posts pensionable, subject to medical examination and one month's notice.

Details and application forms (returnable WITHIN 14 DAYS of this advertisement) from the Borough Surveyor, Swinburne-street, Gateshead.

C. D. JACKSON,
Town Clerk.

Town Hall,
Gateshead, 8.
February, 1960.

BRITISH RAILWAYS
EASTERN REGION.

Applications are invited for the post of ARCHITECTURAL ASSISTANT in the office of the Architect, Eastern Region, British Railways at King's Cross Station.

Applicants should have previous experience in an Architect's office and be taking a recognised course of study with a view to obtaining architectural qualifications. The work of the office provides opportunities to extend experience in design and construction of a variety of interesting buildings.

Modern working conditions; five-day week; rail travel concessions. Salary in accordance with age, qualifications and experience.

Apply in writing to The Architect, Chief Civil Engineer's Department, British Railways, King's Cross Station, London, N.1.

COUNTY BOROUGH OF WEST HAM
BOROUGH ARCHITECT AND PLANNING OFFICER'S DEPARTMENT

Applications invited for the following posts:

(a) GROUP ARCHITECT : APT IV
(b) DEPUTY GROUP ARCHITECT (2 posts) : Special Grade
(c) ASSISTANT PLANNING OFFICER : Special Grade
(d) ARCHITECTURAL ASSISTANT : APT II/Special Grade
(e) ARCHITECTURAL ASSISTANT : APT. I

(London Weighting in addition.)

Commencing salary according to qualifications and experience

Application Form and Details from:
THOMAS E. NORTH, O.B.E., F.R.I.B.A.
70, West Ham Lane, Stratford, E.15,
returnable by 14th March, 1960.

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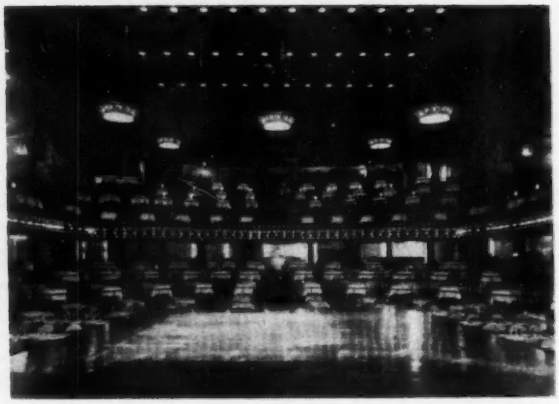


Conversion of The London Hippodrome to Talk of the Town
Architect : A. T. Pine, L.R.I.B.A.

Since 1860

8, ST. ANN'S STREET, WESTMINSTER, LONDON, S.W.1. *Telephone:* ABBey 4661

GRANITE PAVING FLAGS

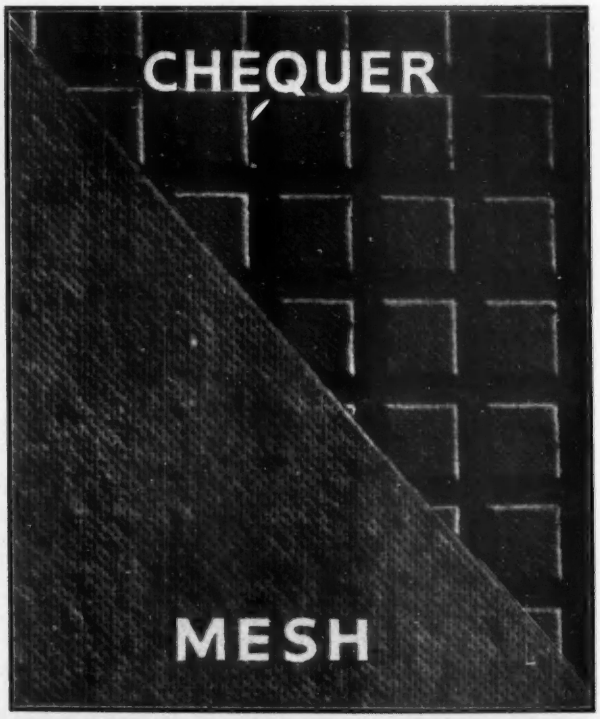
Made strictly to British Standard Specification No. 368 (1956)

Hydraulically Pressed Granite Aggregate—clean, flat, regular in thickness and die square. Non-slip and guaranteed resistant to frost.

Textures include Mesh, Pimple, Chequer pattern and Bar Face. Colours—Grey, Pink and Buff.

Hydraulical Presses are working at Willenhall, S. Staffs. (Willenhall 163) Kidsgrove, N. Staffs. (Kidsgrove 2231) Littlehampton, Sussex (Littlehampton 1321) and at Iver, Buckinghamshire, (Iver 1540).

Gravel or Slag Aggregate Paving Flags are pressed to order.



TARMAC VINCULUM LTD
ETTINGSHALL WOLVERHAMPTON
Phone: Bilston 41101.

LIVERPOOL REGIONAL HOSPITAL BOARD.

TEMPORARY CLERK OF WORKS.

Salary £15 15s. 0d. per week.

Applications invited for the above appointment in connection with the building of an Artificial Limb and Appliance Centre at Mill-road Maternity Hospital, Liverpool, 6. The Contract, approximate value £70,000 and of some eighteen months' duration, will be supervised by Messrs. Harry Banister & Partners. The person appointed may be required to give periodic attendance on other building contracts at the same or other local hospitals.

Candidates must have had experience as a Clerk of Works on large building schemes, having previously served an apprenticeship as craftsman and have been a Foreman of Trade or General Foreman and should preferably be a member of the Institution of Clerk of Works of Great Britain (Inc.).

The successful candidate will be based at Mill-road Maternity Hospital.

The appointment will be subject to the N.H.S. Superannuation Scheme. Applications stating age, qualifications, present and previous appointments and salary with names and addresses of three referees (two technical) to me at 55, Castle-street, Liverpool, 2, by 10th MARCH, 1960.

VINCENT COLLINGE,
Secretary to the Board.

WELSH COLLEGE OF ADVANCED TECHNOLOGY.

Cathays Park, Cardiff.
(Associated with the University of Wales.)

WELSH SCHOOL OF ARCHITECTURE.

Applications are invited for the post of Head of the Welsh School of Architecture. The School is a major department of the College which is associated with the constituent Colleges of the University of Wales for the provision of courses leading to the degree of B.Arch.(Wales). The School is recognised by the Royal Institute of British Architects which grants exemption from its examinations to graduates and diplomates of the School.

Applicants should be well qualified Architects, being graduates of a British University or having equivalent qualifications and should have had good teaching and professional experience.

The salary will be in accordance with Grade VI of the Burnham Report, i.e. £2,250 x £50—£2,500 per annum.

Forms of Application, together with further particulars, may be obtained from the Principal and should be returned to him as soon as possible.

ROBERT E. PRESSWOOD,
Clerk to the Governors.

City Hall,
Cardiff.

EAST ANGLIAN REGIONAL HOSPITAL BOARD.

SENIOR ASSISTANT ARCHITECTS. Salary £1,050-£1,245.

ASSISTANT ARCHITECTS. Salary £730-£1,055; additional increments within scale based on experience and age may be granted.

Candidates for above posts must be qualified and registered architects by examination.

ARCHITECTURAL ASSISTANTS. Salary £545 (at 21 or over)-£765; commencing figure may be fixed at point above minimum but will not exceed £630. Candidates must have passed intermediate examination of R.I.B.A.

These appointments are for work on major development schemes and offer considerable scope for gaining experience on large scale hospital projects. Salary scales are under review. Applications stating age, qualifications, experience and details of present position (salary, etc.) with names of three referees, to Secretary of Board, 117 Chesterton-road, Cambridge, by 18th MARCH, 1960.

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT

NEW SECTION FOR NEW TOWN DEVELOPMENT.

A new section is being set up to prepare outline proposals for the L.C.C. New Town.

PLANNING ASSISTANTS with architectural, engineering or economics background required for short-term, original and interesting work. Later opportunities for careers for those interested. Up to £1,135 (under review) in accordance with qualifications and experience.

Application form, and further particulars, from Hubert Bennett, F.R.I.B.A., Architect to Council EK/27/60, County Hall, S.E.1. (270.)

(Amended Advertisement)

BOROUGH OF WARWICK.

APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for a SENIOR ASSISTANT to work immediately under the Chief Architectural Assistant in the Borough Surveyor's Department. Salary A.P.T. III (£880-£1,065), entry in the scale according to qualifications and experience. The position is permanent and subject to medical examination. Housing accommodation will be provided if necessary and removal expenses paid.

Applicants must have passed at least the Finals of the R.I.B.A.

The post offered is for the design and site supervision of large Housing Estate Development incorporating shops, multi-storey flats, etc.

Applications, stating age, qualifications, experience and the names and addresses of two referees, should be sent to the Borough Surveyor, 23 Jury-street, Warwick, not later than MONDAY, the 21st MARCH, 1960.

HECTOR SETON BROWN,
A.M.I.C.E., A.M.I.W.E.,
Borough Engineer and Surveyor.
23 Jury-street,
Warwick.
22nd February, 1960.

MIDHURST RURAL DISTRICT COUNCIL.

CAPITAL WORKS ASSISTANT No. 2.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the above appointment at a salary within Grade A.P.T. II/III (£765-£1,065 per annum) according to qualifications and experience.

The Council have a large programme of capital works and the appointment will afford interesting experience in design and supervision of new schemes of water supply, housing, car parks, sewerage and sewage disposal.

Applicants should be able to drive and provide a car for which an allowance will be paid according to the duties carried out. Assistance will also be given with housing accommodation and removal expenses in a suitable case.

Applications giving particulars of age, qualifications, experience and present appointment, together with the names and addresses of two referees must be received by the undersigned not later than 26th MARCH, 1960.

D. L. BLAY,
Clerk of the Council.

Council Offices,
Midhurst,
Sussex.

WOKING U. D. C.

ARCHITECTURAL ASSISTANT.
A.P.T. II (£765-£880).

Applicants for this appointment in Architectural Section of Engineer and Surveyor's Department, must be Students R.I.B.A. with good general experience.

Appointment offers competent assistant experienced in preparation working and detailed drawings, excellent opportunity engagement on variety of architectural projects.

HOUSING ACCOMMODATION if required.

Casual user car allowance.

Application forms from Engineer and Surveyor.

Closing date 14th MARCH, 1960.

UNIVERSITY OF CAMBRIDGE,

Department of Estate Management, requires the services of a fully qualified BUILDING SURVEYOR, who has had wide experience in connection with maintenance of, and minor new works to, various types of buildings.

The salary will be fixed in accordance with an existing grading scheme for officers in the Department, having regard to age and experience. The post is pensionable and children's allowance is payable where appropriate. Detailed applications giving the names of two referees should reach the Director in Estate Management, 74 Trumpington-street, Cambridge, by 21st MARCH, 1960.

EAST RIDING OF YORKSHIRE COUNTY COUNCIL.

Applications are invited for the appointment of a resident CLERK OF WORKS to supervise the contract for the erection of a County Secondary School at Howden.

The salary will be at the rate of £15 7s. 6d. per week and the Council will provide a second-class rail or omnibus contract ticket between the Clerk of Works approved place of residence and the school site.

Applications, giving particulars of age, qualifications, experience, past and present appointments with salaries, and the names of three referees, should be sent to the County Architect, County Hall, Beverley, not later than FRIDAY, 11th MARCH, 1960.

THOMAS STEPHENSON,
Clerk of the Council.

CITY OF CHESTER.

DEPARTMENT OF CITY ENGINEER.

Applications are invited for the post of SENIOR ARCHITECTURAL ASSISTANT. Salary within the A.P.T. Special Grade Scale. Candidates should have passed the R.I.B.A. Final Examination and should have had good training and general experience. Housing accommodation will be available to the successful applicant if required. Application with two recent testimonials should reach the City Engineer, 49 Northgate-street, Chester, by 18th MARCH, 1960.

GLASGOW CORPORATION.

ARCHITECTURAL AND PLANNING DEPARTMENT.

RESIDENT ENGINEER.

Applications are invited until MONDAY, 21st MARCH, for the temporary post of RESIDENT ENGINEER to take charge of new multi-storey reinforced concrete framed construction in Glasgow. The appointment will, subject to satisfactory service, last for five years and the salary will be £1,200 per annum rising by annual increments of £75 to £1,500. Previous experience on site supervision for similar work is essential, with special reference to concrete control and instrumental setting-out. Applications giving full particulars, including previous experience, and accompanied by two recent testimonials and the name of one referee, should be addressed to the City Architect and Planning Officer, 20 Trongate, Glasgow, C.1, marked on the outside "Resident Engineer."

A. G. JURY,
City Architect and Planning Officer.

Amended Advertisement.

WEST SUSSEX COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment:

CHIEF HEATING, MECHANICAL, ELECTRICAL ENGINEER, at a salary in accordance with Scale B (£1,265 x £55(4)-£1,485).

COMMENCING SALARY WILL BE ACCORDING TO EXPERIENCE.

Further particulars should be obtained from the County Architect, County Hall, Chichester, to whom all detailed applications must be submitted not later than 4th APRIL, 1960.

T. C. HAYWARD,
Clerk of the County Council.

County Hall,
Chichester.

MID HERTS GROUP HOSPITAL MANAGEMENT COMMITTEE.

GENERAL FOREMAN Required for Building Works direct labour staff. Post vacant 1st MAY, 1960, due to retirement. The successful applicant must have served a full trade apprenticeship and have had some years' experience in a supervisory capacity. A.S.C. wages and conditions. Wages £11 14s. 8d. per 44-hour week. Applications stating age, full details of experience and naming two referees to the Building Supervisor, St. Albans City Hospital, Normandy-road, St. Albans, Herts.

SOUTH WEST METROPOLITAN REGIONAL HOSPITAL BOARD.

Applications are invited for the post of (a) ASSISTANT ARCHITECT or (b) ARCHITECTURAL ASSISTANT or (c) DRAUGHTSMAN on the permanent staff of the Board generally in accordance with Whitley Council Conditions of Service.

Applicants for post (a) must be Associate members of the Royal Institute of British Architects and capable of preparing working and detailed drawings and specifications and supervising work on individual projects; experience of hospital planning and construction an advantage. The commencing salary will be fixed according to age and experience within the scale £730 x £25(2) x £30(2) x £35(5) x £40(1)-£1,055 p.a.

Applicants for post (b) must have passed the Intermediate Examination of the R.I.B.A. or equivalent examination; commencing salary within the scale £545 (at age 21) x £20(3) x £25 (4) x £30(2)-£765 p.a.

Applicants for post (c) must have had suitable training, including three years' technical experience in architectural drawing; salary £445 (at age 21) x £25(5) x £30(3)-£660 p.a.

All the scales quoted are under review and a London Weighting Allowance is payable in addition.

Application forms may be obtained from the undersigned at 40 Eastbourne-terrace, London, W.2, and must be completed and returned by 16th MARCH.

E. G. BRAITHWAITE,
Secretary.

GLOUCESTERSHIRE COUNTY COUNCIL.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the above appointment in "Career Class" commencing in A.P.T. Grade IV (£1,065-£1,220) progressing to A.P.T. Grade V (£1,220-£1,375) subject to satisfactory report on reaching appropriate incremental point in Grade.

Applicants must have passed the Final Examination R.I.B.A. N.J.C. Service Conditions, Superannuation, Medical Examination.

Applications stating age, present position, salary and date of appointment, details of experience and previous appointments, together with the names and addresses of two persons for reference, to reach County Architect, Shire Hall, Gloucester, by 16th MARCH.

GUY H. DAVIS,
Clerk of the County Council.

CHISLEHURST AND SIDCUP URBAN DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

ARCHITECTURAL ASSISTANT required in Engineer and Surveyor's Department. Salary A.P.T. II (£765-£880 p.a.) plus London Weighting. Preference to candidates with R.I.B.A. (Inter.) Examination.

Housing accommodation available.

Applications, giving age, training, qualifications and experience and names of two referees, to Clerk, Council Offices, Sidcup-place, Sidcup, by 18th MARCH, 1960.

NORTHAMPTONSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications for the following posts are invited from candidates with the necessary qualifications:—

* Two SENIOR ARCHITECTURAL ASSISTANTS, A.P.T. V (£1,220-£1,375). Applicants must be Associates of the R.I.B.A., with a contemporary approach to architecture, and will be delegated with responsibility for the design and supervision of large building contracts for both Education and other services.

* QUANTITY SURVEYOR, Special Scale "A" (£1,210-£1,390). Applicants must be Associates of the R.I.C.S. and have had experience in cost analysis and particularly interim cost control. The successful applicant will take the responsibility of second in command under the Chief Quantity Surveyor for the quantity surveying and accounting sections.

QUANTITY SURVEYOR, A.P.T. IV (£1,065-£1,220). Applicants must be Associates of the R.I.C.S. and must be able to prepare bills of quantities for major projects.

HEATING ENGINEERING ASSISTANT, A.P.T. II (£765-£880). Applicants must have had experience in the design of schemes and the preparation of drawings and specifications for heating and hot and cold water supplies in schools and other large buildings.

* HEATING CLERK OF WORKS, A.P.T. II (£765-£880). Consideration will be given to applicants who have had some experience of site supervision of contracts for heating and allied services and some experience as a contractor's foreman in charge of similar works. The successful applicant will also be required to inspect, test and supervise existing plant for economical operation and to instruct boiler attendants.

* for these posts a car travelling allowance will be payable in accordance with the County Council's approved scale.

A weekly sum of 25s. by way of temporary additional salary will be payable, subject to review quarterly, to a married officer unable to find a house locally.

Details giving age, education, qualifications and experience, with a copy of a recent testimonial, should be sent in an envelope marked "Staff," to the County Architect, County Hall, Northampton, by TUESDAY, 22nd MARCH.

J. ALAN TURNER,
Clerk of the County Council.

County Hall,
Northampton.

HEAD OF BUILDING DEPARTMENT.

Required 1st SEPTEMBER, 1960. Candidates should have suitable academic qualifications, with extensive experience of teaching and of the Building industry and its associated educational schemes.

Salary Grade II, Head of Department, £1,600 x £50-£1,800.

Further particulars and forms of application from the Principal, Cambridgeshire Technical College and School of Art, Collier-road, Cambridge.

CITY OF OXFORD.

CITY ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Applications are invited for the following posts:—

SENIOR ARCHITECTURAL ASSISTANTS. A.P.T. Grade IV (£1,065-£1,220). (Grading under review.) Suitable housing accommodation, if required, will be provided by the Council for the above posts.

The successful applicants must be members of the Royal Institute of British Architects and will be engaged mainly on educational and civic buildings. Applicants should have several years' experience and possess a wide knowledge of modern methods of construction and contract procedure and must be capable of carrying through contracts from sketch stage to completion with minimum supervision. A high standard of design ability and a keen interest in contemporary architecture are essential. Assistants are encouraged to control their own contracts from sketch design onwards.

The appointments will be subject to the National Conditions of Service and the successful candidates will be required to pass a medical examination.

Application forms to be obtained from the City Architect and Planning Officer, Town Hall, Oxford. Closing date 25th MARCH, 1960.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.

CITY OF BRADFORD.

Applications are invited for the following permanent posts:—

(a) ASSISTANT ARCHITECTS, A.P.T. IV (£1,065-£1,220).

(b) ASSISTANT ARCHITECTS (Special Grade) (£785 x £40(6) x £45(1)-£1,070).

(c) ASSISTANT ARCHITECTS, A.P.T. I (£610-£765).

The Department has a number of large projects in hand, including the new Bradford Institute of Technology, affording ample scope and opportunities.

Candidates for (a) and (b) must be Corporate Members of the R.I.B.A. and for (a) must have varied office experience and for (c) must have passed the Intermediate Examination of the R.I.B.A.

No assistance can be given in the provision of housing accommodation.

Application forms obtainable from the City Architect, Town Hall, returnable with copies of two recent testimonials by 19th MARCH, 1960.

HENRY PATTEN,
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Town Hall,
Bradford 1.

OVERSEAS PUBLIC APPOINTMENTS

QUANTITY SURVEYOR'S ASSISTANTS (COSTING) Required by KENYA GOVERNMENT P.W.D. on contract for tour of 36-45 months in first instance with possibility of transfer to permanent and pensionable establishment. Commencing salary up to £945, according to age and experience in scale (including Inducement Pay), £813 rising to £1,341 a year. Gratuity at rate of 13½ per cent. of total substantive salary drawn. Outfit allowance £40. Free passages. Liberal leave on full salary. Candidates under 45 must have had at least 5 years' experience in a builder's office or on building sites under site agents; have a sound knowledge of building construction, estimating and costing and be able to analyse bills of quantities. Write to the Crown Agents, 4 Millbank, London, S.W.1. State age, name in block letters, full qualifications and experience and quote M2B/49922/BH.

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Contract appointments are normally for five years, and may be renewed. Three months' notice of resignation of an appointment is required.

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A gratuity at the rate of £150 a year is payable at the end of a contract period. Children's allowances are paid up to a maximum of three.

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Application forms and an Information Brochure may be obtained from the Assistant Registrar, Reference B/A, Kumasi College of Technology, 29 Tavistock-square, London, W.C.1, who will also be glad to answer any question about this appointment. The Principal of the College will be in London to interview candidates for this post in April.

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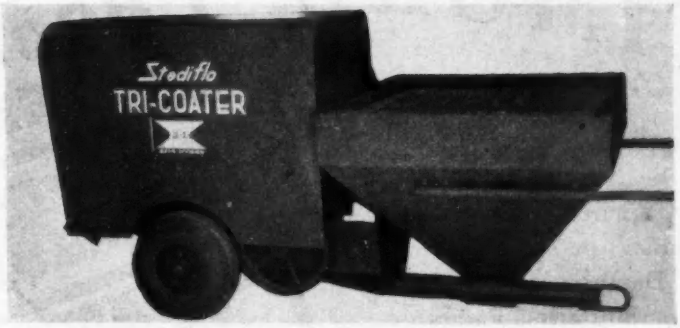

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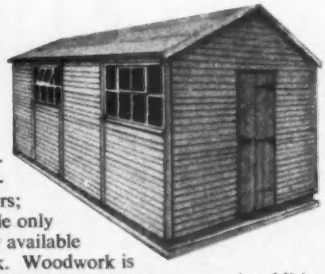

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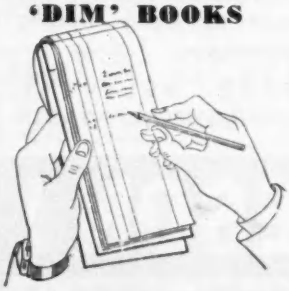

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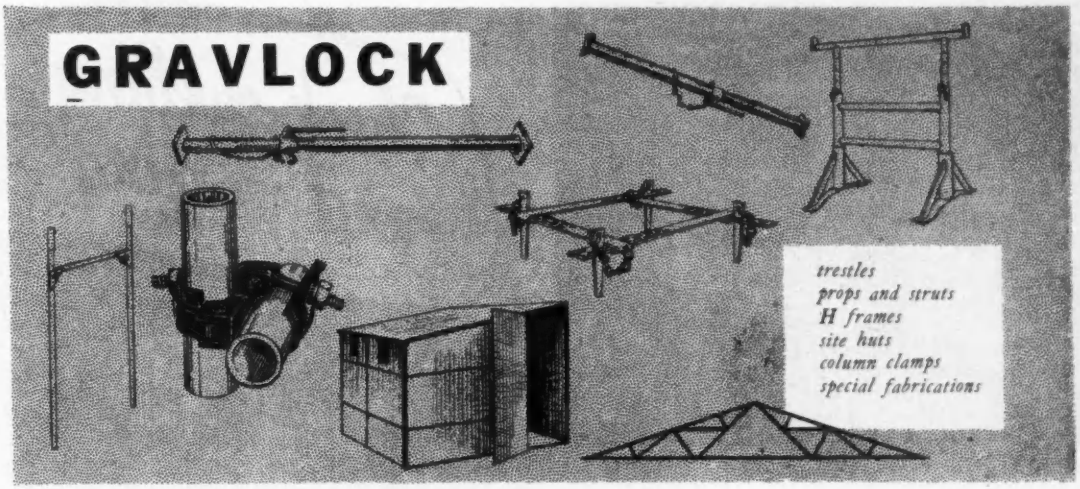

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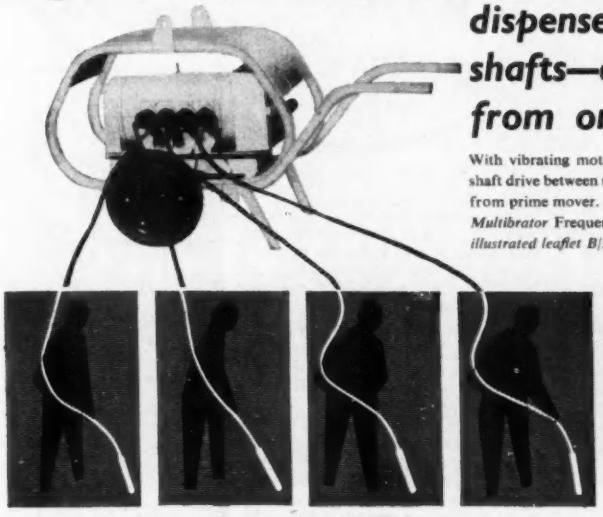

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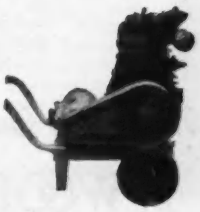

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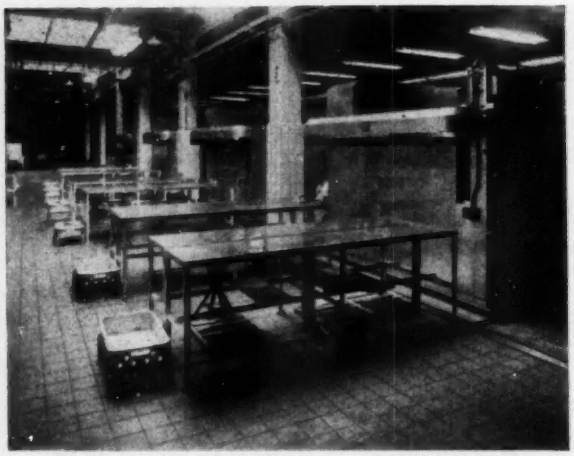

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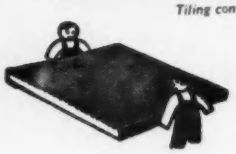

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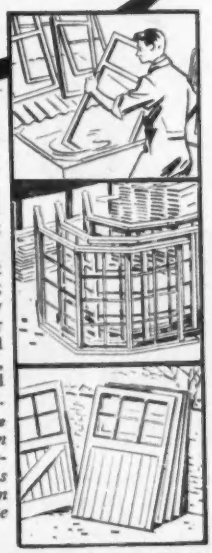

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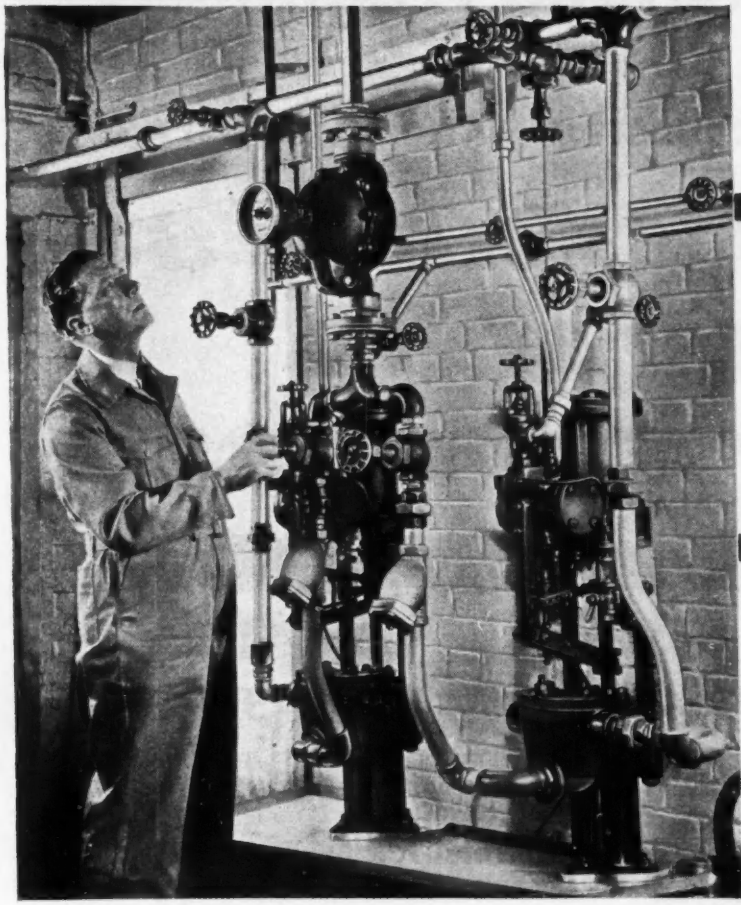

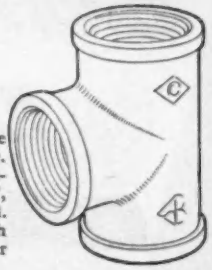

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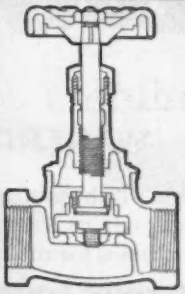

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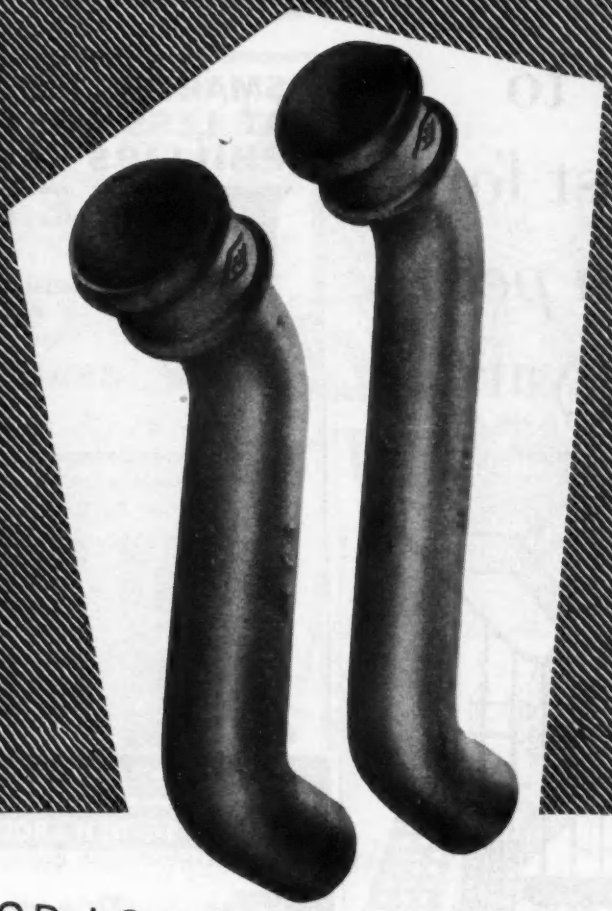

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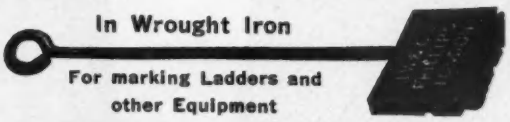

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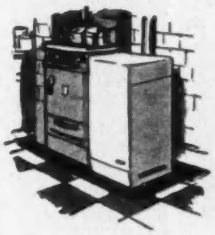

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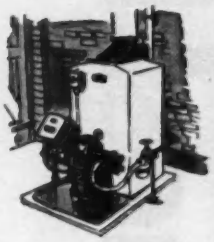

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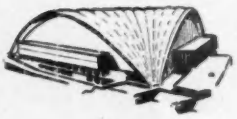

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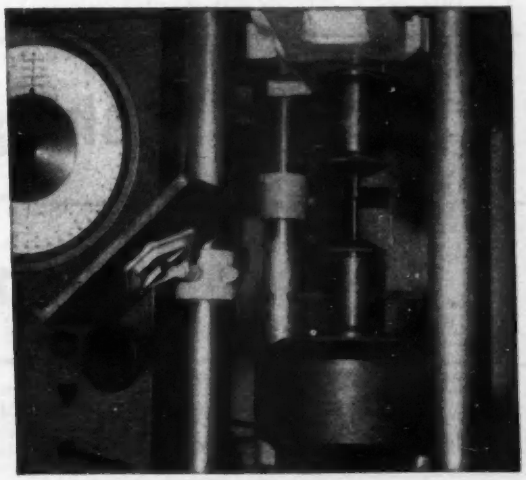

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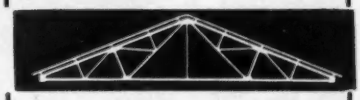

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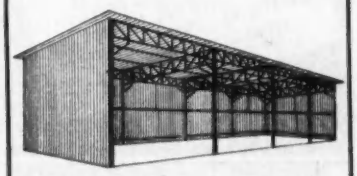

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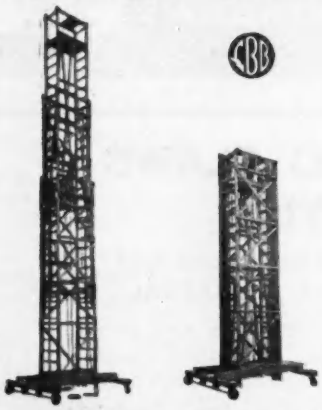

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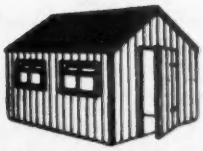

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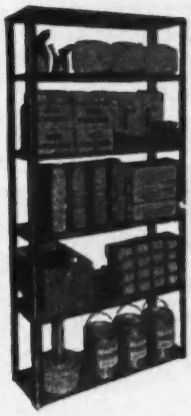

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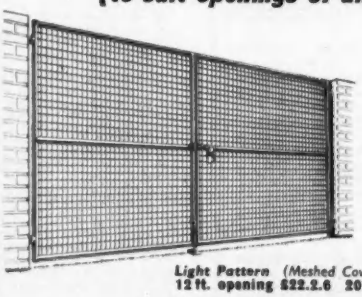

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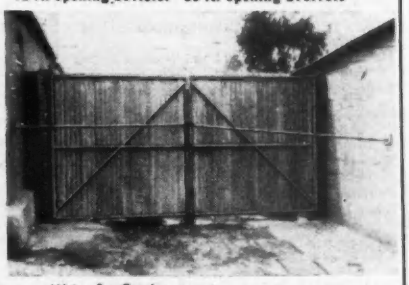

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QUANTITY SURVEYOR Required by Civil Engineering Contractor based on North London. Applicants with experience on Civil Engineering Contracts preferred and should be experienced in all aspects of valuations, variations, final accounts, etc. Initiative and drive are an essential requirement for this position.—Write, giving age, full particulars of past experience, and indication of salary, to Ref. CL., Box 1714, "The Builder."

G. PERCY TRENTHAM Ltd. Require experienced site QUANTITY SURVEYORS for Building and Civil Engineering Contracts. Good conditions of employment and good prospects for suitable men.—Apply, giving details of experience, etc., to Chief Surveyor, G. PERCY TRENTHAM Ltd., Pangbourne, Reading.

SENIOR QUANTITY SURVEYORS Required by GEORGE WIMPEY & CO. Ltd., in the Manchester region. Able to prepare interim valuations and control the preparation and agreement of final accounts. The positions will be pensionable, subject to satisfactory service. Good salaries and conditions.—Apply, giving full details of age, experience and qualifications, to 629 Eccles New-road, Salford, 5, Lancs.

MANCHESTER Chartered Quantity Surveyors Require experienced ASSISTANT, A.R.I.C.S. preferred. State salary required.—Box 1716, "The Builder."

ASSISTANT QUANTITY SURVEYOR Required for work at Hunterston Nuclear Generating Station, Ayrshire, in settlement of civil engineering contract. Full details of appointment will be given at interview which will be arranged in London, Stockport or site.—Applicants should give details of age, experience and qualifications, if any, to The Contract Labour Department, SIMON-CARVES, Ltd., Cheadle Heath, Stockport, quoting Ref. HS.24.

QUANTITY SURVEYOR

Permanent position at Head Office of National Contractor in Midlands area for experienced Surveyor to visit large Contracts to prepare progress payment certificates and final accounts including Sub-Contractors. Past previous experience covering this work is most essential. Top rate of salary will be paid to suitable applicant.

Send full details to
Box No. 1546.

QUANTITY SURVEYORS' ASSISTANTS Required for checking. Taking-off and billing domestic dwellings on Trusteel system of construction. Good opportunities for advancement.—Apply TRUSTEEL CORPORATION (UNIVERSAL) Ltd., Lime Lodge, Heath-road, Oxhey, Watford, Herts. (Tele.: Watford 26256/7.)

QUANTITY SURVEYORS Required for Taking-off and billing domestic dwellings on Trusteel system of construction.—Apply TRUSTEEL CORPORATION (UNIVERSAL), Ltd., Lime Lodge, Heath-road, Oxhey, Watford, Herts. (Tele.: Watford 26256/7.)

CHARTERED Quantity Surveyors Require ASSISTANT/QUALIFIED ASSISTANT for London office. Five-day week, luncheon vouchers.—Reply stating full experience and salary required to S. W. APPLEYARD & PARTNERS, 16 John-street, W.C.1.

EXPERIENCED TAKER-OFF/MEASURING SURVEYOR,

A.R.I.C.S. preferred, for Chartered Quantity Surveyors site office in North Lincolnshire.—Apply stating age, experience and salary required to Box 1748, "The Builder."

A QUANTITY SURVEYOR Required for site measuring and final accounts. Age 35-40, preferably professionally trained. Five-day week; willing to travel and stay away for short periods. Good prospects.—Write, giving experience, salary expected, to Box 1754, "The Builder."

LONDON based B. & C.E. Contractor's QUANTITY SURVEYOR with experience in preparation of extra-costs principally under "I.C.E. Conditions" to work with section senior surveyor. Scope for analytical and legal methods in handling contract issues.—Please write in confidence for interview, must state age, qualifications, experience, responsibility held, salary, pension, etc., to Box 1741, "The Builder."

SENIOR QUANTITY SURVEYORS Required for large civil engineering contracts in the Midlands and Southern areas. Excellent propects for keen first-class surveyors, pension scheme, etc.—Reply stating full details of age, experience and salary required, to M. J. GLEESON (CONTRACTORS) Ltd., C.E. Dept., Haredon House, London-road, North Cheam, Surrey.

JUNIOR QUANTITY SURVEYOR for Consulting Civil Engineers. Progressive position.—Apply in writing to C. H. DOBBIE AND PARTNERS, 58 Victoria-street, S.W.1.

JUNIOR ASSISTANT QUANTITY SURVEYOR

Age 20–25, required by The Wiggins, Teape Group. Duties will include site measuring and working up with opportunity of taking off at a later stage. The position is permanent, pensionable and free lunches. Apply in confidence stating age, details of training, experience and salary to:

Chief Surveyor,
Surveyor's Department,
Wiggins, Teape & Co. Ltd.,
Gateway House,
1, Watling Street, London, E.C.4.

SURVEYORS

BONUS SURVEYORS Required, experienced in measuring and applying incentive scheme for building contracts in London.—Write, giving details of experience, age and salary required, to: KIRK & KIRK LIMITED, Atlas Works, Putney, S.W.15.

QUANTITY SURVEYORS with headquarters on the South Coast, Require ASSISTANTS at Wimbledon and Bognor Regis for taking-off, but who are also prepared to work-up and to measure final accounts if required.—Reply to ALEX SAYER & PARTNERS, F.F.S., Arcade Chambers, Bognor Regis, Sussex, stating experience and salary required.

SURVEYOR Required by Building Contractors for estimating, interim payments to final accounts. Age 25-35 years.—Apply in writing stating experience, qualifications and salary required to E. P. WICKENS & SONS Ltd., 93 Eastworth-road, Chertsey, Surrey.

PLASTERING SURVEYOR, used to own initiative; excellent scope and opportunity.—ARC 6727.

JUNIOR BUILDING SURVEYOR and DRAUGHTSMAN Required for medium-sized Building Firm. Knowledge of estimating an advantage but not essential.—Apply in writing stating age, experience and salary required, to R. BUTCHER & SON, 39 George-street, Warminster.

CEREBOS GROUP OF COMPANIES

ASSISTANT REQUIRED IN THE GROUP SURVEYOR'S DEPARTMENT

Applicants should have reached either Intermediate or Final Standard R.I.C.S. (Building) and be conversant with alterations and additions to buildings including the preparation of plans and specifications. The position offers an excellent opportunity for a keen, energetic young man between the ages of 23 and 27 to gain experience in many branches of the profession. Good working conditions, pension scheme and non-contributory life insurance.

Applications giving full particulars of age, experience and salary required should be addressed to:

The Secretary, **CEREBOS LIMITED,**
Victoria Road, Willesden, N.W.10.

MEASURING SURVEYORS

who are prepared to be responsible for contracts in London and the Provinces, from site survey to final account, are required by a National Contractor, to be based at Head Office in London.

The situation offers scope for ambitious young men. Opportunities for promotion and a good salary. Successful applicants will share in the annual staff bonus and join an existing Pension Scheme. Salary will be reviewed regularly. Good allowances when travelling.

Apply in writing, giving age and experience to:

Box 1535 "The Builder"

Plastering Contractors require

EXPERIENCED SURVEYOR

Permanent pensionable position for suitable applicant. Write, stating age, experience, and approximate salary required, to:

The Office Manager,
Jonathan James Ltd.,
52/54, Putney High Street,
London, S.W.15.

CUBITTS

COST SURVEYORS

required immediately

Must be experienced in measuring completed site works for the purpose of unit costing, and assessment of targets. Permanent and pensionable positions with good prospects.

Apply in confidence stating age, experience in detail and salary required to

PERSONNEL MANAGER
HOLLAND & HANNEN AND CUBITTS
(GREAT BRITAIN) LTD.,
1 Queen Anne's Gate,
London, S.W.1.

SENIOR SURVEYOR

required for a large Contract in the Birmingham area.

Apply in confidence, stating age, previous experience and employers to

Chief Surveyor, Tersons Ltd.,
4 Dollis Park, London, N.3.

SURVEYOR

SMALL WORKS DEPARTMENT

Surveyor (25–35 years of age) required in the Small Works Department of a firm of National Contractors situated in the Westminster area. Applicants must have a good manner and address and be able to handle work from inquiry to final account. Write giving fullest particulars to—

Box No. 1577, "The Builder"

BUILDING SURVEYOR Required in Management Dept. of old-established and expanding Property Company based in London. A capable draughtsman and specification writer, experienced in conversion/modernisation of properties, preparation/settlement of claims for dilapidations, structural reports, cognisant of London Building Acts and Legislation, essential. Luncheons provided, and non-contributory pension scheme in operation for established staff. A four-figure commencing salary is envisaged.—Applications, giving full relevant particulars, to Box 1534, "The Builder."

BUILDING SURVEYOR Required principally to be responsible for the organisation and supervision of new factory and shop development, but also to assist with general professional work. Good salary and prospects.—Please write with details of experience and remuneration required to STRUCKETT & SON, Chartered Surveyors, 13 New Bridge-street, E.C.4.

QUANTITY SURVEYORS Require SENIOR SURVEYOR in Birmingham area for settlement of Final Accounts. Permanent position with superannuation. Commencing salary £1,000 per annum or according to experience.—Box 1556, "The Builder."

MEASURING SURVEYOR Required for City Chartered Quantity Surveyor's office. Pension and life assurance scheme.—State age, experience and salary to Box 1582, "The Builder."

BUILDERS' SURVEYORS Required, capable of handling contracts from £5,000/£250,000. Must be experienced in Taking-off and ordering materials from Bills of Quantities, interim certificates and final accounts.—Apply in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

ASSISTANT Required for cost planning and estimating by Westminster firm of Chartered Quantity Surveyors. Some estimating experience in Builder's or Surveyor's office essential. Good prospects. Pension scheme.—Write full particulars to Box 1617, "The Builder."

CHARTERED Quantity Surveyors Require, for London office, ASSISTANT, 25-30ish, who is not merely a competent Taker-off, but who also knows how—and is not too proud—to Work-up as well. 5-day week, L.V.s, and opportunities for 18-month tours overseas at considerably higher salary plus free living.—Write, stating U.K. salary required, to Box 1621, "The Builder."

JUNIOR SURVEYOR Required for site measuring in London Area.—Apply stating age, experience and salary required to MESSRS. A. T. ROWLEY (LONDON) LIMITED, Cambridge Works, Lordship-lane, Tottenham, N.17. TOTtenham 3611.

MESSRS. OSWALD E. PARRATT Require experienced MEASURING SURVEYOR for their Harlow Office. Five-day week; Pension Scheme. Service agreement to suitable applicant. Housing accommodation may be available.—State age, experience and salary required to Adelaide House, London Bridge, E.C.4.

EXPERIENCED SITE SURVEYOR for Final Accounts in professional Quantity Surveyors office in Westminster area. Good salary and prospects for right man. Lunch Vouchers.—Apply Box 995, "The Builder."

SURVEYOR Required by Building Contractors in Manchester area, for preparation of final accounts and sundry estimates.—Apply stating age, experience and salary required to Box 1396, "The Builder."

SURVEYOR and JUNIOR ASSISTANT SURVEYOR Required by long-established firm of building contractors. The former should be a competent estimator and capable of undertaking full surveyor's duties. Superannuation scheme in operation.—Write stating age, qualifications and salary required to W. S. TRY, Ltd., High-street, Cowley, Uxbridge, Middlesex

SENIOR SURVEYOR and CONTRACTS MANAGER Required by London Building Contractors.—Apply stating experience, age, and salary required. Box 1483, "The Builder."

SUPERVISOR/SURVEYOR. Energetic man required for expanding housing department, to organise works, carry out negotiations with trades sub-contractors, including strict supervision to completion. Experienced persons only need apply for position with excellent prospects. Pension scheme in operation.—Apply giving full particulars to Housing Director, PERCY BILTON Ltd., Bilton House, 54/58 Uxbridge-road, Ealing, W.5. Telephone: EALing 7777.

JUNIOR SURVEYOR Required for Building Surveyor's City office for site work, measuring variations, etc., on conversion contracts.—Write stating experience and salary required to Box 1325, "The Builder."

LONDON Chartered Quantity Surveyors Require ASSISTANTS for their Cambridge Office for Final Accounts and Taking-off.—Reply, stating experience, age and salary required, to Box 1042, "The Builder."

MEASURING SURVEYOR/TAKER-OFF for London Quantity Surveyors, able to handle Interim Valuations, Deviations and Final Accounts. Must be willing to travel. Salary according to experience and ability.—Box 934, "The Builder."

REQUIRED by Established Reinforced Concrete Engineers. SURVEYOR, fully experienced in Taking-off and measuring for final accounts. Position is permanent, pensionable and progressive.—Write stating age, experience and salary required to Box 985, "The Builder."

SURVEYOR, experienced in maintenance, conversions, and new works. Required immediately for work in the London area by well known firm of Building Contractors.—Applications should state age, experience, and salary required, to Box 1701, "The Builder."

SENIOR AND ASSISTANT BUILDING SURVEYORS Required in the London, Home Counties and Southern Counties area. These positions are permanent, progressive and superannuated.—Write, giving full details, experience, age, salary required and area preferred, to the Chief Surveyor, SIR LINDSAY PARKINSON & CO. Ltd., 6 Lambeth-road, London, S.E.1.

EXPERIENCED SURVEYOR Required, S.W. London, to measure and prepare L.C.C. Maintenance Accounts.—Apply stating experience, age and salary required to Box 1691, "The Builder."

JUNIOR SURVEYOR/ESTIMATOR able to assist with estimates and accounts for alterations and small works.—Write stating experience, training, etc., H. W. MATHEWS (CONTRACTORS), Ltd., Credon-road, London, E.13.

SENIOR SURVEYOR

Required aged 28–40.

Fully conversant with all aspects of Final Accounts on medium/large contracts. Write fully stating experience, salary expected, etc., to

Chief Surveyor,
Wilson Lovatt & Sons Ltd.,
16 Grosvenor Cres., London, S.W.1

SUPERVISING SURVEYOR

(Age 30/35)

Alterations and Decorations (Small Works). Able to estimate and organise own contracts. Good salary and annual bonus on results. Free Pension Scheme.

Box No. 1630, "The Builder"

MEASURING SURVEYORS

Required for London Contracts by North London Company with expanding business, able and ambitious men, capable of assuming increasing responsibility.

Work consists of measuring own work, work of labour only Sub-Contractors (mainly excavation and formwork), work of specialist Sub-Contractors, certifying payments on account, dayworks, preparation of variation claims and interim valuations.

Apply in writing, giving full details of experience and age to

Box No. 1635, "The Builder"

MCMANUS & CO LTD

require

MEASURING SURVEYORS

and an assistant at Potters Bar.

Excellent prospects for keen young men with drive and initiative. Apply, stating age, experience and salary required, to:

The Chief Surveyor,
Mimms Hall Road,
Potters Bar, Middlesex.

ASSISTANT SURVEYOR

for

DECORATING DEPARTMENT

Well-known firm of London Contractors require an Assistant Surveyor for their Decorating and Painting division which is continually expanding and where there is abundant scope. Whilst it is preferred that applicants should have a good knowledge and experience of the trade mentioned it is not wholly essential. Give fullest particulars in first instance to—

Box 1576 "The Builder"

CHIEF SURVEYOR/ESTIMATOR

required by

Tees-side building company. Only fully experienced men who can justify a salary beyond £1,200 per annum should apply in the strictest confidence to

Box No. 1717 "The Builder"

SURVEYOR

Age 25-40 required by

London Contractor handling Industrial Developments throughout the United Kingdom.

H.N.C. standard, willing to travel, good personality and adaptability essential. Contracts : £50,000 to £1 m. Pension scheme. Good prospects of promotion in a rapidly expanding Company. Salary in keeping with age, experience and qualifications. *Full details in confidence to:*

Box 1616, "The Builder."

WIMPEY

invite applications for the following Head Office appointments.

TECHNICAL WRITERS

for work in connection with specifications for all types of building and civil engineering projects.
Training will be given, but applicants should have a sound knowledge of construction, preferably with Architectural or Q.S. background.

WORKERS-UP

(all grades)

for Quantity Surveying Office, where as much routine work as possible is done by machines and where hard work, loyalty and initiative are rewarded by prospects and salary.

TAKERS-OFF

Assistant and Senior

for work in connection with all types of domestic, industrial and civil engineering works at home and overseas.
Applicants, professional or contractor trained, must be adaptable and quick workers with sound practical and commercial approach.

Five-day week, restaurant facilities, good working conditions.
Interviews by appointment (out of office hours if necessary).

Write in first instance, in confidence, giving details of past experience and salaries to:

G. S. Vickery,
GEORGE WIMPEY & CO., LIMITED,
27, Hammersmith Grove, London, W.6.

ASSISTANT SITE SURVEYOR

This appointment presents excellent opportunities for a progressive career with a National Organisation and for obtaining wide experience in the use of modern management and planning techniques on building sites.

Applications are invited from young men preferably aged 22 - 27 with experience of site measurement and the preparation of interim and final certificates.

Please write to:

Personnel Officer,
Richard Costain Limited,
111, Westminster Bridge Road,
London, S.E.1.

SURVEYOR Required by Builders and Contractors, Reading area, to assist in all aspects of the industry. Applicants should be able to Take-off from drawings and specifications, measure in all trades for final accounts and sub-contract payments. Good prospects for keen man.—Reply, giving age experience and salary expected, to Box 1718, "The Builder."

YOUNG BUILDING SURVEYOR or ARCHITECT Required to run existing drawing office staff, for Farmbuilding and Cottage Improvement Schemes in expanding firm of Chartered Surveyors and Land Agents practising in Devon and Cornwall. Salary according to experience.—Full details, marked "Confidential," to STRATTON AND HOLBROW, 1 Lemon Villas, Truro.

JUNIOR SURVEYOR with site measuring experience Required to work in the Main Office. Permanent, pensionable situation and sound progressive opportunities offered to the right type of applicant.—Reply, stating age, experience and salary, to J. M. HILL & SONS (AMPTHILL), Ltd., Ampthill, Bedfordshire.

BUILDING SURVEYOR Required by private firm in South West England for conversion and modernisation of property, repairs and improvements, including ecclesiastical work. Experience of ancient buildings useful. Salary in the range £1,000 to £1,250 p.a.—Apply stating age, experience and qualifications to Box 1765, "The Builder."

BUILDING SURVEYOR with experience in writing Specifications, supervising building work, reasonable draughtsman. Required in West End Architect's office; 5-day week. —Box 1757, "The Builder."

BUILDING SURVEYOR Required, knowledge joinery, shopfitting and plasterwork. Good salary, profit-sharing scheme. Non-contributory pension after suitable period.—Box 1803, "The Builder."

SURVEYOR AND ASSESSOR Required by a professional firm for negotiating settlement of small insurance claims on buildings and reporting thereupon. Negotiating experience essential. Car owner an advantage.—Write, giving details of age, experience and salary required, Box 1770, "The Builder."

ASSISTANT BONUS SURVEYOR Required for London Contract. Must have experience in measuring for incentive bonus schemes.—Write stating age previous experience and record of employment to Chief Surveyor, JOHN MOWLEM & CO., Ltd., 9 Ebury Bridge-road, London, S.W.1.

A. J. Wait & Co. Ltd.
Require

SITE SURVEYOR

For interesting Contract in Lincolnshire, must be experienced in all branches of Surveying, Good Salary, and ½ Bonus scheme.

Apply in first instance to :

Contracts Manager,
Wellington Crescent,
New Malden, Surrey.

BUILDING SURVEYOR, Intermediate standard with minimum of two years' good office experience. Required for Architect's and Surveyor's office. Used to Specifications and small Building Contracts, some drawing ability an advantage. Five-day week, luncheon vouchers. Salary according to experience up to £700 per annum.—Please reply to Box 918, "The Builder."

CHARTERED Quantity Surveyors Require JUNIOR ASSISTANT.—Applications in writing, stating age, qualifications, experience and salary required, to FRANK W. FALKNER & PARTNERS, Chartered Quantity Surveyors, Windscale Works, Seascale, Cumberland.

SURVEYOR Required by expanding Company in North London. Must be conversant with housing and flat development. Drive and initiative essential. Car owner.—W. REED & CO., Ltd., 216-220 Regents Park-road, Finchley, N.3.

ASSISTANT SURVEYOR

for the head office of C. J. SIMS LTD., Building & Civil Engineering Contractors. Age 20-25. Applicants must be experienced in all phases of building surveying, from site measuring to preparation of final accounts. Apply, in confidence, giving age, complete details of training, experience and salary required to:

C. J. SIMS LTD.,
2 Victoria Street, S.W.1.

ASSISTANT SURVEYORS

SOUTHSEA Chartered Quantity Surveyors Require ASSISTANT SURVEYOR for Taking-off and local site measuring. Permanent position with expanding firm having widespread commitments. Non-contributing life assurance and pension scheme for permanent staff.—Write stating age, experience and salary required, THOMAS, JOLLY, GRANT & KELSEY, Architects and Surveyors, 26 Kent-road, Southsea, Hants.

ASSISTANT BUILDING SURVEYOR with knowledge of estimating, age about 25, Required for old-established medium-sized Building Contractors, S.E.1 district. Salary £700 to £800 per annum.—Applications should be submitted in writing stating age, experience, etc., to Box 1594, "The Builder."

ASSISTANT BUILDING SURVEYOR Required for varied and interesting work in new department of expanding company. Must be experienced in taking-off materials for ordering and conversant with all other aspects of surveying. Progressive and permanent position. Man aged 25 to 30 preferred.—Apply by letter stating age, experience and salary required, to Box 1690, "The Builder."

ASSISTANT SURVEYORS (aged 22-27) Required for varied and interesting work including Taking-off, site measuring, estimating, bonusing, planning and job management in all classes of building work. Experience in all fields not essential. Excellent prospects to progress with this expanding group of Companies.—Apply to Mr. Lott, R. D. HOPE & CO. Ltd., 15 Selsdon-road, South Croydon, Surrey. CROydon 9262.

ASSISTANT SURVEYORS Required by long-established firm of Building Contractors. Permanency and prospects for the right applicants; must be competent in preparing records and measuring for final and sub-contractors' accounts.—Apply in writing stating age and experience to the Secretary, C. MISKIN & SONS, Ltd., Romeland House, St. Albans, Herts.

TAKERS OFF

TAKER-OFF Required by Chartered Quantity Surveyor's Office, near Victoria. L.V.s; five-day week.—Write in own handwriting giving details of experience and salary required.—Box 1536, "The Builder."

CHARTERED QUANTITY SURVEYORS have vacancies for JUNIOR TAKERS-OFF in their Portsmouth and Isle of Wight offices. Applicants must have at least passed the Intermediate examination of the R.I.C.S.—Write giving personal details to Box 1678, "The Builder."

SENIOR TAKER-OFF Required by London Chartered Quantity Surveyor.—Please write stating age, experience and salary required to Box 964, "The Builder."

TAKERS-OFF Required by London Chartered Quantity Surveyors for permanent staff.—Write stating age, experience and salary required to Box 916, "The Builder."

JUNIOR TAKER-OFF Wanted in City Chartered Quantity Surveyor's Office. Good prospects and superannuation scheme.—Box 1441, "The Builder."

CHARTERED Quantity Surveyor (London, W.1) Requires capable TAKER-OFF, age 25 to 30. Varied and interesting work.—Please write stating age, experience and salary required, Box 1460, "The Builder."

TAKER-OFF of Intermediate to Final standard Required by Westminster Quantity Surveyors. Excellent prospects in London Office and opportunities for overseas tours.—Apply, stating age and experience, Box 923, "The Builder."

SENIOR TAKER-OFF Required by firm of Quantity Surveyors in Victoria area. Varied work and excellent prospects.—Apply with brief details of qualifications and experience, Box 927, "The Builder."

MANCHESTER Quantity Surveyors (London Firm) Require TAKER-OFF. Need not be qualified but must be thoroughly experienced. Five-day week. Paid overtime. Pension Scheme.—Box 924, "The Builder."

SENIOR TAKERS-OFF Required in Bloomsbury Chartered Quantity Surveyors' Office. First-class working conditions, including Luncheon Vouchers and pension scheme, with good prospects offered to suitable applicants.—Apply, stating age, qualifications, academic background and salary required, to Box 1559, "The Builder."

WAKEMAN, TROWER AND PARTNERS,
Quantity Surveyors, St. Paul's House, St. Paul's Street, Leeds, 1, require the following staff :—

SENIOR TAKER OFF	**Salary £1,000-£1,500 p.a.**
JUNIOR TAKERS OFF, SITE SURVEYORS	**Salary £650-£950 p.a.**
SENIOR WORKER UP	**Salary £750-£1,000 p.a.**
JUNIOR WORKER UP	**Salary £450-£600 p.a.**

WESTMINSTER Quantity Surveyors have a vacancy for a recently qualified TAKER-OFF, salary £900-£1,000. Pension scheme; luncheon vouchers; five-day week. In addition to normal duties experience will be provided in cost control methods and the post should be of particular interest to a young Quantity Surveyor who has a penchant for research.—Apply in writing to LEMON & BLIZARD, 59 Tufton-street, London, S.W.1.

TAKER-OFF Required for City Chartered Quantity Surveyors. Pension scheme.—State age, experience and salary to Box 1580, "The Builder."

JUNIOR TAKER-OFF, Intermediate standard, Required by Chartered Quantity Surveyors near London Bridge. Five-day week, Pension scheme.—State age, experience and salary to Box 1581, "The Builder."

MANCHESTER, Quantity Surveyors (London Firm) Require Staff. Good salary. Overtime. Pension Scheme. Five-day week. (a) SENIOR TAKER-OFF. Must be experienced man. (b) SENIOR MEASURING SURVEYOR. For duties on Final Accounts. (c) SENIOR WORKER-UP. Must be experienced man. Willing to take responsibility.—Box 926, "The Builder."

TAKER-OFF/MEASURING SURVEYOR (taking Final this year or recent A.R.I.C.S.), single, car or cycle licence. Required for long-term appointment in branch Site Office in Berkshire by London Chartered Quantity Surveyors. Tax free subsistence allowance. Superannuation Scheme. Five-day week.—Write full particulars to Box 1612, "The Builder."

JUNIOR and SENIOR TAKERS-OFF Required by London Chartered Quantity Surveyors.—Box 1619, "The Builder."

TAKER-OFF, aged 20-30 years, Required by Chartered Quantity Surveyors in Victoria. Varied and interesting work with good prospects of advancement for conscientious and hard-working person.—Write stating age, experience and salary required: Box 1618, "The Builder."

AUSTRALIA, SYDNEY. Experienced TAKER-OFF Required for 3-year contract. £A1,800, £A1,900, £A2,000 plus considerable overtime. Fares to Australia paid. Continuation contract probable if required.—Box 1652, "The Builder."

EXPERIENCED TAKER-OFF Required in Quantity Surveyor's Office.—Reply stating age, experience and salary required to E. R. BABBS & SONS, 187 Piccadilly, London, W.1.

EXPERIENCED TAKER-OFF, preferably chartered, Required by London firm of Chartered Quantity Surveyors for permanent position.—Please reply stating salary required, details of previous experience and age to Box 1648, "The Builder."

ASSISTANT TAKERS-OFF

Chartered Quantity Surveyors, near Victoria Station, urgently require Assistants of Intermediate standard and above for large and varied programme. Write stating age, experience and salary required to

Box No. 1720, "The Builder"

JUNIOR TAKER-OFF, approaching final standard, for small firm; progressive position on varied work. State age, experience and salary required to S. J. FLOOD, 2 Lowndes-street, S.W.1, or 'phone: Belgravia 3512.

SENIOR TAKER-OFF Required by Quantity Surveyors in Victoria area for varied types of Contracts from taking-off to final account. Very good prospects for advancement; pension scheme; Luncheon Vouchers.—Write stating age, experience and salary required. Box 1653, "The Builder."

SENIOR TAKER-OFF Required by Chartered Quantity Surveyors, Rochester, Kent. Reply stating age, experience and salary required.—Box 1636, "The Builder."

TAKER-OFF Required by Chartered Quantity Surveyors in Reading area.—Apply Box 1558, "The Builder."

TAKER-OFF Required in Derby by expanding firm of Chartered Quantity Surveyors. Interview in London or Derby.—Particulars to Box 1693, "The Builder."

JUNIOR TAKER-OFF Required by London Chartered Quantity Surveyors for good progressive position.—Particulars to Box 1694, "The Builder."

CAMBRIDGE, Chartered Quantity Surveyors Require a JUNIOR TAKER-OFF and a WORKER-UP. Good prospects and salary.—Write, giving details of experience, to DAVIS, BELFIELD AND EVEREST, 2 Jesus-lane, Cambridge.

JUNIOR TAKER-OFF/MEASURING SURVEYOR Required. L.V.s. Pension Scheme; opportunities for advancement.—Write stating age, experience and salary required to ERIC G. LYNDE & PARTNERS, 41 Russell-square, W.C.1.

SENIOR TAKER-OFF/MEASURER Required to take charge of Quantity Surveyor's busy site office near Manchester. Commencing salary £1,500 p.a.—Box 1719, "The Builder."

SENIOR AND JUNIOR TAKERS/OFF Required by London Chartered Quantity Surveyors. Salary scales up to £1,500 p.a. and £1,100 p.a. respectively.—Write age, experience and salary required to Box 1721, "The Builder."

RELIABLE SENIOR TAKER-OFF Required by Westminster Q.S. Good salary and prospects for right man.—Box 1724, "The Builder."

JUNIOR TAKER-OFF
Required by firm of Chartered Quantity Surveyors in London (A.R.I.C.S. preferred). Salary £750-£950. Pension scheme. L.Vs.—Please write stating age, experience and salary required to Box 1749, "The Builder."

LONDON firm of Chartered Quantity Surveyors Require experienced TAKERS-OFF and WORKERS-UP for long-term contracts in South Wales.—Please apply stating age, experience and salary required to Box 1750, "The Builder."

EXPERIENCED TAKER-OFF Required for London firm of Quantity Surveyors. Salary upwards of £1,000 according to age and experience. Luncheon vouchers; five-day week. Age 35-40.—Write, giving experience, to Box 1755, "The Builder."

TAKER-OFF, Intermediate/Final R.I.C.S. or equivalent standard, Required in Quantity Surveyor's Department of London Brewery. Varied and interesting work on new public houses, industrial buildings, major alterations, etc. This is a permanent position, offering good prospects to a suitable candidate, who should preferably be Quantity Surveyor trained.—Apply giving full particulars of experience to date, age, salary required, etc., to Box 1761, "The Builder."

JUNIOR TAKER-OFF with not less than 2 years' Taking-off experience Required by West End firm of Chartered Quantity Surveyors. Medium sized congenial office. Five-day week.—Box 1758, "The Builder."

EXPERIENCED TAKER-OFF Required in Central London C.Q.S. office. Salary £1,100-£1,200. L.Vs.—Box 1797, "The Builder."

TAKER-OFF/MEASURING SURVEYOR Required by A. S. WILSON AND PARTNERS, Chartered Quantity Surveyors in their office at Cambridge.—Write to 8 Storey's Gate, Westminster, S.W.1, stating experience, age and salary.

JUNIOR TAKER-OFF Required by Chartered Quantity Surveyors in Gray's Inn. Excellent opportunity for man seeking post in varied practice.—Please reply stating age, experience and salary required, to Box 1800, "The Builder."

TAKER-OFF Required by London Quantity Surveyors.—Please write stating age, experience and salary required to Box 1801, "The Builder."

WORKERS UP

AUSTRALIA, Sydney. Experienced WORKER-UP Required for 3-year contract. £A1450, £A1,500, £A1,550 plus considerable overtime. Fares to Australia paid. Continuation of contract probable if required.—Box 1680, "The Builder."

EXPERIENCED WORKER-UP Required by London Quantity Surveyors.—Write, stating age, details of experience and salary required, to Box 954, "The Builder."

SENIOR WORKER-UP for London Quantity Surveyors.—Write, stating age, details of experience and salary required, to Box 953, "The Builder."

WORKERS-UP Required by London Chartered Quantity Surveyors for permanent staff.—Write stating age, experience and salary required to Box 905, "The Builder."

WORKER-UP Required by London Chartered Quantity Surveyors. High remuneration for good worker.—Please reply, in confidence, to Box 986, "The Builder."

WORKER-UP Required in City Chartered Quantity Surveyor's Office, to take charge. Established position for right man. State experience and salary required.—Box 1440, "The Builder."

WORKERS-UP and intelligent JUNIORS, wishing to train for and qualify as Chartered Quantity Surveyors, Required in Bloomsbury Chartered Quantity Surveyors' Office. First-class working conditions, including Luncheon Vouchers, and opportunities for progressive training offered to suitable applicants.—Apply, stating age, experience, if any, academic background and salary required, to Box 1560, "The Builder."

WORKER-UP Required by City Chartered Quantity Surveyors. Five-day week, Pension scheme.—State age, experience and salary required to Box 1578, "The Builder."

EXPERIENCED WORKER-UP Required by Quantity Surveyors near London Bridge. Pension scheme; overtime.—State age, experience and salary required.—Box 1579, "The Builder."

EXPERIENCED WORKER-UP Required by firm of Chartered Quantity Surveyors in West End, London.—Reply stating experience, age, salary required to Box 931, "The Builder."

WORKER-UP Required by London Chartered Quantity Surveyors.—Box 1620, "The Builder."

WORKER-UP with 18 months' experience, for small firm, and to assist in settlement of final accounts on varied work.—State age, experience and salary required to S. J. FLOOD, 2 Lowndes-street, S.W.1, or 'phone: Belgravia 3512.

WORKER-UP Required for Quantity Surveyor's office in Victoria area. Good prospects; Luncheon Vouchers. Write stating age, experience and salary required, Box 1654, "The Builder."

SENIOR WORKER-UP Required to take charge of Department in Westminster Quantity Surveyor's Office.—Please write stating age, experience and salary required to Box 945, "The Builder."

WORKER-UP, with at least three years' experience Required by London (W.C.1) firm of Chartered Quantity Surveyors.—Please reply stating age, experience and salary required to Box 1649, "The Builder."

WORKER-UP
for long-term contract at NEWPORT, Mon., Required by firm of Chartered Quantity Surveyors. Rented accommodation available. Similar appointment exists in PORT TALBOT office.—Please write stating age, experience and salary required, to Box 1752, "The Builder."

CHIEF WORKER-UP Required.—Apply Box 1692, "The Builder."

RELIABLE WORKER-UP wanted in Westminster Q.S. office. Good salary and prospects.—Box 1723, "The Builder."

WORKERS-UP Required by Chartered Quantity Surveyors for posts in Essex and Caithness, Scotland. A house to rent will be available in Essex, and a suitable site living allowance in Scotland. Candidates must have experience in a professional office. Interviews arranged in London or Caithness.—Apply Box 1722, "The Builder."

QUANTITY Surveyor's WORKER-UP, £640 to £795.—Forms from Borough Surveyor, Town Hall, Wimbledon, S.W.19, returnable by 14th March, 1960.

WORKER-UP
for permanent position in London office of Chartered Quantity Surveyors. Pension scheme and L.Vs.—Please write stating age, experience and salary required, to Box 1751, "The Builder."

WORKERS-UP Required. Candidates with clerical background would be considered for training as Workers-up. Some technical or building knowledge an advantage but not essential. Pensioners considered.—Write, stating age, experience and salary required. Box 1759, "The Builder."

SENIOR WORKER-UP Required to take charge of department in Chartered Quantity Surveyors' Office, London, W.1. Five-day week. Luncheon Vouchers.—State age, experience and salary required. Box 1760, "The Builder."

EXPERIENCED WORKER-UP
Required by Chartered Quantity Surveyors for site office at SCUNTHORPE.—Apply stating age, experience and salary required, to Box 1753, "The Builder."

WORKER-UP Required by London Chartered Quantity Surveyors. 5-day week. Opportunities to progress.—Write stating age, experience and salary required to Box 1802, "The Builder."

ENGINEERS

SITE ENGINEERS Required for building contracts, London area; must have considerable experience in multi-storey concrete framed buildings. Good salary for men with initiative.—Apply in writing, stating age and experience, M. J. GLEESON (CONTRACTORS) Ltd., Haredon House, London-road, North Cheam, Surrey.

SENIOR and JUNIOR ENGINEERS and MEASURING SURVEYORS are Required for Building Contracts in England. These are permanent appointments with good prospects. Bonus and Superannuation Schemes in operation.—Applications, which will be dealt with in strict confidence, must give details of age, experience, qualifications and salary required and should be addressed to Personnel Officer, TARMAC CIVIL ENGINEERING Ltd., Ettingshall, Wolverhampton.

SITE ENGINEERS

B. & C.E. Contractor in Midlands area of National repute has vacancies for several Engineers for a variety of Contracts to start shortly. Applicants should be experienced in setting out, foundations, all external services, reinforced concrete and records. The positions are suitable for young ambitious men and offer much scope for early promotion. A good commencing salary is offered. Send details to:

Box 1545 "The Builder"

WORK STUDY ENGINEER

Progressive Company handling large Building projects in London, controlled from West/Central London office, require a trained W.S. Engineer. Applicants having undoubted enthusiasm and initiative will be given the opportunity to develop and head a Work Study Section of the Planning Department. Staff bonus and superannuation schemes in operation. Age limits 25/35 years. Applications in strict confidence giving brief particulars of training, experience, salary, age, etc., to

Box No. 1461, "The Builder"

PLANNING ENGINEER Required by reputable and progressive Cambridge firm of Building Contractors. This is a senior head office post which is responsible for the planning, progressing and bonusing of large building contracts. Work includes executive co-ordination of programmes with other departments. Knowledge of site organisation is essential. Experience of contract or production planning is an advantage and will be followed by training for the suitable man. This is an important post with increasing responsibility.—Applications for interview, which will be treated in confidence, should give age and precise details of qualifications and relevant experience and be sent to Mr. B. H. Johnson, Messrs. JOHNSON & BAILEY, Ltd., Norfolk-street, Cambridge.

ESTIMATOR

required by large
Joinery and Door Manufacturers.

The position demands extensive experience in preparing and pricing tenders for mass-produced and specialised joinery with a proved capacity to work efficiently under minimum supervision. Permanent progressive post assured to the right man. Contributory Pension Scheme available after satisfactory probationary period. Applications containing detailed particulars of experience, qualifications, age, positions previously held, when available and an indication of salary expected, to be addressed to :—

The Managing Director,
The Rothervale Manufacturing
Company Limited,
Woodhouse Mill, near Sheffield.

SENIOR BUILDING ESTIMATOR

required. Should have had experience of competitive estimating for all types of major building projects and a sound knowledge of detail price analysis and be able to submit completed tenders with calculations for final discussion with the Head of the Department.

BUILDING ESTIMATOR

required, aged 25 to 35 years. Must be capable of estimating for all types of major building projects and have a sound knowledge of price analysis.
Apply in writing, in confidence, stating full details of experience, age and salary required to the

Personnel Officer,
Tarmac Civil Engineering Limited,
Ettingshall, Wolverhampton.

ESTIMATOR/SURVEYOR

required by
progressive firm N.E. London

L.I.O.B. an advantage. Pension scheme. Apply in writing giving details to

Box No. 919, "The Builder"

ESTIMATORS

SCAFFOLDING ESTIMATOR Required. Must be fully experienced in all types of scaffolding and cradles. Contributory pension scheme and car provided.—Write, stating age, experience and salary required, Box 1664, "The Builder."

BUILDING Contractor Requires JUNIOR for estimating department. Excellent prospects for intelligent and conscientious youth.—Apply in writing to the Personnel Officer, TARMAC CIVIL ENGINEERING Ltd., Ettingshall, Wolverhampton.

ESTIMATOR Required for Conversions, Small Works Decorations, etc.—Write or 'phone experience and salary required, SHAW & WRIGHT, 3 Wigmore-place, W.1. LANgham 4004.

ESTIMATOR.—Applications are invited by Civil Engineering and Building Contractors for the position of ESTIMATOR in their head office. Applicants must have had previous site experience and preferably a number of years' experience in the preparation of Tenders for heavy civil engineering and industrial building contracts, including reinforced concrete framed structures. The position is permanent and carries a good salary, bonus and conditions, and entry into the superannuation scheme will be arranged after 12 months' service.—Applications, giving full details of previous experience, will be treated in strictest confidence, and should be addressed to THE MITCHELL CONSTRUCTION CO., Ltd., Wharf Works, Peterborough.

KENSINGTON builders Require an ESTIMATOR/SURVEYOR. Experienced in Taking-off quantities, measuring on site and estimating for alteration and repair work up to about £20,000. Salary according to experience up to about £900 p.a.—Write or telephone Director, R. MANSELL, Ltd., 133 Oxford-gardens, W.10, and we will send a form for your details.

PAINTING Contractors Require ESTIMATOR experienced in pricing Bills of Quantities, site measuring and preparing estimates for commercial and industrial work.—Write fully stating age, experience, salary required, PERROTT GRENVILLE, Ltd., 58 Kensal-road, W.10.

ESTIMATOR Required by Builder, Beckenham. Must be capable man used to tendering for general building works. Sound position for sound man.—Box 925, "The Builder."

ASSISTANT ESTIMATOR for high class Joinery Works. Experience in the trade essential.—Full details to NORBURY JOINERY & CABINET WORKS Ltd., 1332 London-road, Norbury, S.W.16.

ESTIMATOR Required in small works department of Harrow Builders.—Box 1703, "The Builder."

JUNIOR Required to assist in Estimating Department of National Contractor's office. Age 15-18. Technically trained preferred. Opportunity to become Indentured Student after probationary period. Necessary keen, intelligent and willing.—Write Box 1704, "The Builder."

ESTIMATOR Required immediately for General Works Department of well-known London Contractors. The appointment is to permanent staff and is pensionable. Applicants should be used to tendering on Bills of Quantities or on own dimensions.—Please send full details to Box 1700, "The Builder."

ESTIMATOR/SUPERVISOR, able to deal with small jobbing and maintenance work in the London area from inquiry to final account. Required by leading firm of Building Contractors.—Applications should state age, experience, and salary required, to Box 1699, "The Builder."

ESTIMATING ASSISTANT Required by leading London firm of Building and Civil Engineering Contractors, to help with the preparation of abstracts from Bills of Quantities and with the issue of tender enquiries. The position is permanent and pensionable, and offers interesting experience.—Applications should give full details of age, past experience, and salary required, to Box 1708, "The Builder."

CHIEF ESTIMATOR of company specialising in the manufacture and erection of timber buildings urgently Requires DEPUTY to take control of staff of Estimators. Applicants must have wide experience of structural woodwork and a knowledge of general building construction and be capable of preparing tenders involving both factory production of timber buildings and general site works. This is a senior appointment and provides considerable opportunities for man capable of acting on own initiative. —Write stating age, qualifications and experience with some indication of salary required to Box 1712, "The Builder."

QUALIFIED AND EXPERIENCED ESTIMATOR/SURVEYOR Required for well-known firm of Reinforced Concrete Specialists, to take charge of estimating department and be responsible for all quantities and estimating for contracts up to £250,000 in value. Must be able to work on own initiative. Five-day week with opportunity to join Pension Scheme after initial service. Minimum salary offered £1,200 per annum.—Please give all details of previous experience, etc., which will be treated in confidence, to CAXTON REINFORCED CONCRETE Ltd., 45 Bedford-row, London, W.C.1.

ESTIMATING CLERK, age around 30 years, for Wood Flooring Contractors, East London Area. Some experience in the Building Trade an advantage, able to take off quantities, etc.—Write fully, in confidence, details of career, salary and experience to Box 1798, "The Builder."

SENIOR ESTIMATOR/SURVEYOR Required, capable of dealing with Contracts, all sizes, from enquiry to account. Superannuation scheme. Old established firm, Central London.—Applications, stating age, experience and salary required, to Box 1762, "The Builder."

JUNIOR ESTIMATOR/SURVEYOR Required by old established firm Central London. Opportunities for advancement, superannuation scheme.—Applications, stating age, experience and salary required, to Box 1763, "The Builder."

ESTIMATOR Required to deal with Contracts from Enquiry to Final Account.—Reply, stating age, experience and salary required, to Managing Director, W. SILK & SON Ltd., 13 Homerton High-street, London, E.9.

ESTIMATOR/SURVEYOR Required by old-established Building Contractor, East London. Capable of dealing with Contracts from enquiry to final account. Taking-off own quantities from drawings if necessary or pricing Bills up to £50,000.—Write, stating age, experience and salary required, to Box 1764, "The Builder."

ESTIMATOR/SURVEYOR Required. Experienced in small and medium sized contracts from enquiry to final account.—E. GOSTLING (BUILDERS), Ltd., Holly-road, Hampton Hill, Middlesex.

ESTIMATOR

Required for National Building & Civil Engineering Contractor for Head Office in Midlands. Fully experienced in estimating for all types of Civil Engineering Works. A good salary will be offered with Pension Scheme and other conditions to the selected applicant.

Send full details of training and experience in confidence to

Box No. 1725, "The Builder"

SENIOR ESTIMATOR

(*Age about* 30)

Responsible to Head of Department for building works up to £100,000 in value. Central London Firm.

Contract Surveyor

(*Age about* 30)

To take charge of progress valuations, bonusing and final account work. Assistance given.

The above appointments are part of a policy of expansion of a successful firm and offer excellent prospects for advancement in a thriving and expanding business.

The successful applicants will be able to share in the prosperity they create—annual bonus on results.

Box No. 1632, "The Builder."

TOKEN CONSTRUCTION CO. LTD.

require, due to re-organisation of Departments,

SENIOR ESTIMATOR

Fully experienced in all types of major projects, including large concrete structures. Capable of complete cost analysis in all trades.

ESTIMATORS

With sound technical knowledge of competitive tendering.

SENIOR SURVEYORS

With a sound knowledge of site surveying duties.

and

JUNIOR SURVEYORS

All applicants to reply in writing, giving age and experience, to:

Personnel Director,
Token Construction Co. Ltd.,
68, Mount Street, W.1.

SENIOR ESTIMATORS

required by

National and International
Contracting Company

Knowledge and experience necessary of detailed price build-up for all trades for contracts up to and exceeding one million pounds. Particularly required is experience of usage of modern plant and equipment and modern constructional methods, home and overseas. Salary according to qualifications but in the range of £1,300 to £1,500 per annum. Pension Scheme. Apply

Box No. 1521 'The Builder'

PAINTING CONTRACTORS

require

ESTIMATOR

Large painting Contractors in West London area, require experienced and energetic Estimator. Good salary plus annual bonus on results. Car supplied. Opportunity for advancement for the right man. Applications will be treated in strict confidence and should give full details of previous experience, together with age, and salary expected, to—

Box 1742, "The Builder"

PLUMBING ESTIMATOR

BUILDING ENGINEERING CONTRACTORS LTD.

Present the opportunity of 1960—
Go forward to the 1970's with us.

We want a competent man who will relieve the existing management of responsibility. We are prepared to pay a generous salary with bonus. This is a progressive position under good conditions at our London Head Office.

Make an appointment for an informa interview with out Managing Director.

BISHOPSGATE 8321.
BUILDING ENGINEERING HOUSE, DYSART STREET FINSBURY SQUARE, LONDON, E.C.2.

INDUSTRIAL PAINTING

TOP WEIGHT MAN
FOR
SUBSTANTIAL LONDON COMPANY

Keen Estimator and Supervisor with the necessary contacts to enlarge an already thriving business.

Candidate should be about 35 yrs. A good disciplinarian and with the experience to permit him to make a highly remunerative career for himself. The position is pensionable (non-contributory) and carries with it an annual bonus on results.

Box No. 1631.

ESTIMATOR/SURVEYOR Required by medium-sized builders, experienced in preparation of Tenders up to £60,000, valuations and final accounts.—Apply in writing stating experience and salary required to UDEN & CO. (EPSOM), Ltd., 53 South-street, Epsom.

BUILDER'S ESTIMATOR/SURVEYOR Required for medium-sized contracts and maintenance works. Good prospects in expanding organisation.—Please write with full details of age, experience and salary required to: TAMWORTH PARK CONSTRUCTION Co. Ltd., 2 Thrale-road, Streatham, S.W.16, or telephone STReatham 0148.

TAYLOR WOODROW

require

BUILDING ESTIMATOR

for varied and interesting overseas contract work in London office. Salary according to age and experience. Write giving details of age and experience to

PERSONNEL MANAGER,
TAYLOR WOODROW SERVICES LIMITED,
WESTERN HOUSE, WESTERN AVENUE,
LONDON, W.5.

SENIOR ESTIMATOR/SURVEYOR, age 35-40. Required. Experienced in Taking-off Quantities, pricing and preparing final accounts—for alteration and repair work up to £40,000. Furnished or unfurnished accommodation available. Immediately.—Apply in writing, stating age, experience and salary, to HUGH MILLS & SON Ltd., 72a Queen-street, Newton Abbot, South Devon.

ESTIMATOR/SURVEYOR Required by a young, rapidly expanding London Company with a new approach to building construction. Must have up-to-date knowledge of prices in all trades. Only very experienced applicants will be considered for this post with a Company with an international future.—Apply, giving full particulars of career to date and salary required to A. H. ANDERSON, Ltd., 66 Victoria-street, London, S.W.1.

ESTIMATOR/SURVEYOR Required for S.E. London Building Contractors, experienced in small works and medium sized contracts from Enquiry to Final Account.—Apply, with full particulars, to Box 1773, "The Builder."

MANAGERS

MANAGER Required for Small Works Department of medium-sized Building Contractors, North Herts. Ability to estimate, supervise and carry through jobs to final account essential. Permanent pensionable position with car for successful applicant.—Apply with full particulars to Box 1687, "The Builder."

GENERAL MANAGER. Large Estate Developers, Southern England, Require a GENERAL MANAGER, operating from London, to take complete charge of housing production on various sites. Previous large scale building experience is essential and any in the House Building industry advantageous. The Salary will exceed £2,000 per annum, plus Bonus; a Car provided and Pension rights and other amenities available.—Applications which will be treated in strictest confidence should state age, training, past and present employers, experience, outside interests and sent to Box 1250, "The Builder."

CONTRACTS MANAGER, Houses and Flats, North West London area.—Full details past experience and salary required to Box 944, "The Builder."

ASSISTANT to Building Manager Required by small expanding contractors Romford area, carrying out alterations, conversions, shopfitting and new works to £30,000. All duties.—Write fully stating salary required to Box 922, "The Builder."

ASSISTANT TO MANAGER Required by progressive old-established Company. Good knowledge of estimating essential and capable of generally assisting with Managerial problems. Salary around £750. Applicant must hold current driving licence and be of the 25-35 age group. Excellent prospects for man with ability and initiative.—Write full details to E. H. CUMMINS & Co. Ltd., Station-road, Dorking, Surrey.

A LONDON PUBLIC COMPANY engaged on sub-contract specialist finishing trades (to the Building Industry) are seeking a first-class man for the appointment of CONTRACTS MANAGER. A background of surveying general building work and previous contract management experience is desirable. The position is one of seniority which would suit a man between 38-45 already holding a similar appointment but with ambition to improve his immediate income and future prospects.—Applications to Managing Director, Box 1705, "The Builder."

BUILDING CONTRACTS MANAGER

to be appointed by National Concern operating from Midlands office.

A very senior position with salary and conditions to match. Car. Bonus. Pension scheme included and prospects of advancement excellent.

We require a man of proven record on large contracts, with wide experience, personality, energy and initiative. Managerial approach and commercial sense essential.

Write full particulars to Box DL 4876, c/o Whites, 72 Fleet-street, London, E.C.4.

TROLLOPE & COLLS LIMITED Require an ASSISTANT CONTRACTS MANAGER to assist in the organisation and supervision of high-class contracts in the London area. This post will carry excellent opportunities, with membership, in due course, of the Company's Superannuation Scheme.—Reply with fullest particulars to the Assistant Secretary, TROLLOPE & COLLS Ltd., One Noble-street, Gresham-street, London, E.C.2.

BUILDING MANAGER Required for Housing Development of a superior nature, South Manchester area. The applicant must have a wide knowledge of sewering and road works, also the ability to supervise several Contracts running simultaneously and produce good results. The possession of the Higher National Certificate in Building will be an advantage, but is not essential. Car provided.—Apply Box 1726, "The Builder."

BUILDING MANAGER

Required for Senior position directly responsible to Directors.

Essential qualifications;

Age—Maximum 45 years.

Able to control several contracts at one time up to £200,000.

Experience in modern management, planning, work study, cost control and bonus.

Knowledge of estimating and surveying.

Sound Technical education and background.

Proven experience.

Good Salary and prospect of promotion to successful applicant.

Written applications in confidence giving full details of experience and present Employer to:—

G. E. GATES, F.I.O.B.,
E. S. GATES LTD.,
Chalfont Station Road,
Amersham, Bucks.

PLASTERING CONTRACTORS

require

MANAGERS

Plastering Contractors of National Status require Surveyor-trained Managers who are at present employed in the Plastering Industry.

Salary £1,500 to £3,000 per annum depending on ability.

Applicants must be between the ages of 30 and 35 and must be able to take full control of businesses at Director level anywhere in the United Kingdom.

Applicants should give brief details of their careers to date, together with name of present Employer.

All applications in the strictest confidence and marked "Plastering Manager" to

Box 705, 'The Builder'

PLANNING DEPARTMENT

SENIOR EXECUTIVE

National Building Contractors require an experienced controller to Head this Department responsible for:—

(i) Preparation of outline schemes for major building contracts at the tender stage.

(ii) Preparation of comprehensive method statements for all new contracts, including plant lay-out drawings, formwork and mould design, scaffolding schemes and other aspects of technique and cost in co-operation with management and site staff.

(iii) Provide sites with initial site setting out services.

This is a senior appointment and a person with enthusiasm and all-round experience is required. Brief details to Contracts Director:—

Bernard Sunley & Sons,
25 Berkeley Square, London, W.1.

HEAD OF COSTING SECTION Required for the supervision and operation of periodic contract and unit costing and incentive schemes.—Applications, quoting age and experience, to Chief Quantity Surveyor, Ref. DJB, Messrs. HOWARD FARROW Ltd., Russell-parade, Golders Green-road, N.W.11, and marked "Confidential."

CONTRACTS MANAGER Required by small progressive firm of Building Contractors to manage contracts in the London area. Good salary and half-yearly bonus on results to suitable applicant.—Box 1765, "The Builder."

CONSTRUCTION MANAGER

Applications are invited for the post of Construction Manager by a firm of Building Contractors in the London Area. The successful applicant will be responsible to the Managing Director for the planning, direction and control of all construction work.

Applicants should preferably have civil engineering experience and be within the age group 35/45. The commencing salary is within the range of £1,700 to £2,000 and a pension scheme is in operation.

Applications in writing giving full details of experience, qualifications, and positions held should be forwarded to **URWICK, ORR & PARTNERS, LTD.**, who have been asked to advise on this appointment at **URWICK HOUSE, 14, Hobart Place, London, S.W.1**, quoting reference TRM/1373 on the envelope.

The Advisory Service for the Building Industry has been retained to advise on the appointment of a

PROJECT MANAGER

(National Contractor—London)

Qualified civil engineering agents, who are fully experienced on site administration and have had sole responsibility for major buildings, should apply for this appointment as PROJECT MANAGER in Essex.

Applicants should be between 30-35. They should be capable of running this reinforced concrete project to a strict timetable, while working with the latest methods to the highest of standards and using up-to-date management techniques such as planning and cost control.

Applications in writing, quoting B P/2 and giving details of age, qualifications experience and salary required, should be sent in confidence to

C. A. Francis, B.A.S.,
82, New Cavendish Street, W.1.

PAINTING COMPANIES

require

MANAGING DIRECTORS

Applications are invited from individuals fully trained in the control and management of specialist painting businesses for appointment as Managing Directors in Companies operating in various areas of the United Kingdom.
Commencing salary up to £1,750 according to qualification, plus bonus and expenses.
Applicants who should not be over 40 years of age, should apply in writing giving brief details of career to date, together with name of present Employer. All applications will be treated in strictest confidence and should be marked "Painting Manager" to
Box 706 'The Builder'

PLASTERING MANAGER

Genuine business opportunity for top grade man to develop a plastering company associated with allied building trades in the North of England.

Applicants must be about 40, able to control labour and have a thorough knowledge of the trade including estimating. Applications in strict confidence must state age, experience and present employer.

Box 1727, "The Builder"

Formerly the Incorporated Clerk of Works Association of Great Britain FOUNDED 1882

THE

INSTITUTE'S EXAMINATIONS

will be held 24th–28th May, 1960 in London, Edinburgh, Belfast and Manchester.

Forms of entry from The Secretary, Liverpool House, 15/17 Eldon Street, E.C.2.

Wanted, a Technical-trained man centred in Birmingham / Wolverhampton area, age group 30/40 years, well versed in Building Construction in all its phases, to take up a position with a company introducing a new development in Building.

Ability to interview Architects and Engineers at top level is essential and connections with Local Authorities and National Boards desirable.

Please write, giving age, qualifications and experience, and salary required, to

Box No. 1563, "The Builder"

BUILDING MANAGER

to take charge of Building Department of National Contractors operating mainly in the London area. Thorough knowledge of modern building is essential, together with administrative ability in the control of a large Department. Applicants must have considerable energy and the capacity for hard work together with the ability to instil enthusiasm and team spirit in others. Commencing salary will be in the range of £2,000/£3,000 depending on experience, together with the usual bonus and Pension arrangements. Applications to be addressed to the Managing Director, which will be treated in the strictest confidence. Own Staff informed.

Box No. 1728, "The Builder"

CLERKS OF WORKS

EXPERIENCED CLERK OF WORKS Required for large building project in Romford, Essex.—Write stating age, experience and salary required to ROFF MARSH, F.R.I.B.A., M.T.P.I., 125 London-road, Chelmsford, Essex.

CLERK OF WORKS Required to superintend the erection of new buildings for St. Hild's and Bede Colleges, Durham, work on which is expected to begin in May, 1960, and be completed about July, 1962. Candidates must be experienced Clerks of Works with a good knowledge of all building trades including reinforced concrete work. A good salary will be offered to a man with the right qualities and good experience.—Applications giving full details of past experience, age and salary should be sent to the Architects appointed by the Colleges, CORDINGLEY & McINTYRE, F./F.R.I.B.A., Chartered Architects, Owengate, Durham City, not later than 25th MARCH, 1960.

CLERK OF WORKS for supervision of 350 houses, roads and sewers. Salary in region of £750 p.a., subsistence allowance subject to discussion. Mileage allowance for essential use. Must be capable of using level and site measurement.—Reply by 9th MARCH, to Wm. SAUNDERS & PARTNERS, 24 Castlegate, Newark.

CLERK OF WORKS Required for new Junior School at Maidenhead, starting April 1960. Salary 16 gns. per week.—Reply giving particulars of experience and names of two referees to PETER BOSANQUET, A.R.I.B.A., 60 St. John-street, Oxford.

CLERK OF WORKS immediately Required on Contract at Romford for large warehouse block, ancillary buildings and service roads. Experience in supervision of large day-work contracts essential. Probable duration, nine months.—Reply, stating salary required, to Personnel Manager, IND COOPE Ltd., Station-street, Burton-on-Trent.

A VACANCY exists for a CLERK OF WORKS to supervise the erection of a new building in the Bloomsbury area. The structure is of reinforced concrete on reinforced concrete foundations with brick cladding and applicants should have experience in the supervision of this type of work.—Applications should be addressed to EASTON & ROBERTSON, CUSDIN, PRESTON AND SMITH, 53 Bedford-square, London, W.C.1.

CLERK OF WORKS Required for two-year project at Norwich starting in May, 1960. This post calls for a first-class man of proved ability and a generous salary will be paid.—Apply with brief particulars to SEELY AND PAGET, 41 Cloth Fair, London, E.C.1. or telephone MET 8511.

CLERK OF WORKS urgently Required for multi-storey office block in Manchester. Thorough knowledge of reinforced concrete and competence to supervise works. Salary not less than £900 per annum. Interview London or Manchester.—Apply by letter to E. NORMAN-BAILEY & PARTNERS, 25-27 Catherine-place, London, S.W.1.

EXPERIENCED CLERK OF WORKS Required for the construction of a new office block and conversion of existing premises in West End. Applicants should have extensive experience of R.C. construction and high quality conversion works. Salary £1,000 to £1,200 per annum according to experience.—Apply to MESSRS. C. H. ELSOM & PARTNERS, 10 Lower Grosvenor-place, London, S.W.1. VIC 4304.

CLERK OF WORKS Required, Secondary Modern School, Hartford, Cheshire. Work commencing April, 1960, for fifteen months.—Reply Box 1588, "The Builder."

CLERK OF WORKS Required, Secondary Modern School Dukinfield, Cheshire. Work commencing early April.—Write, stating experience and salary required, Box 1589, "The Builder."

BUYERS

CHIEF BUYER Required by National Building Contractors for their centralised Buying Department, London. Applicant aged 33-45 with sound experience, personality and ability direct staff and control expanding department. Progressive salary, pension scheme, excellent prospects.—Apply Box 1626, "The Builder."

EXPERIENCED BUYER Required, fully competent in all trades and able to order from drawings.—Write stating age, experience and salary required to SPICERS (BUILDERS) Ltd., Ombersley-road, Worcester.

GEORGE CALVERLEY & SONS (CONTRACTORS) LTD.

Evington Valley Road, Leicester

invite applications for the following positions, which are permanent and pensionable, in their General Contracting Division at Head Office:—

Two Senior Quantity Surveyors capable of preparing interim valuations and final accounts.

One Experienced Buyer to be responsible for all purchases and Sub-Contractors.

One General Foreman capable to supervising work up to £200,000, using modern planning and management techniques. Knowledge of R.C. work essential.

One Working Foreman to supervise contracts up to £20,000.

Gangers with knowledge of concreting and excavating.

Apply to The Secretary,
George Calverley & Sons (Contractors) Ltd.,
Evington Valley Road, Leicester

JOINERY MANAGER

Applications are invited for the post of Joinery Manager by a firm of Building Contractors in the London Area. Applicants should preferably be within the age group 30/45 and have a thorough knowledge of joinery production of hard and soft woods. Experience in setting out and estimating will be an advantage.

Applicants must have experience of managing a joinery of at least 18 operatives and be capable of assuming full responsibility. The commencing salary is within the range £1,100 to £1,400 and a pension scheme is in operation.

Applications in writing giving full details of experience, qualifications, and positions held should be forwarded to **URWICK, ORR & PARTNERS, LTD.**, who have been asked to advise on this appointment at **URWICK HOUSE, 14, Hobart Place, London, S.W.1**, quoting reference TRM/1374 on the envelope.

ASSISTANT BUYER

required by Large Building Contractors operating on National Scale with Head Offices at Epsom. Progressive appointment for fully experienced man with pension after qualifying period.

Good conditions in pleasant surroundings.

Write full details, age, experience and present salary to

H.S.T.
Carlton Contractors Ltd.,
Carlton House, Epsom.

JOHN LAING AND SON LIMITED

require

ASSISTANT BUYERS

at their Head Office.

Applicants should have had some experience of Buying or as Builders Assistants and must be able to take off quantities.

Applications welcome from men studying for H.N.C., L.I.O.B. or A.I.Q.S., or those who have already qualified.

Permanent pensioned employment for those seeking a progressive career. Canteen and Sports Club facilities available. Five day week.

Those interested should write for application form to **Personnel Manager (A.B.6), John Laing and Son Limited, London, N.W.7.**

BUYER (assistant) Required, age 25-35, for Building and Civil Engineering Contractors, Ealing Broadway, London, W.5. Five-day week, contributory pension scheme. L.V.s.—Write stating age, experience and salary required to Box 1766, "The Builder."

REPRESENTATIVES

ARCHITECTURAL REPRESENTATION Required in the London area.—Write Box 1665, "The Builder."

FIRST-CLASS SALESMEN calling regularly on builders, builders' merchants, to handle an extra line in regular demand. Exceptional remuneration by generous commission scale.—Write: Box 1260, "The Builder."

IF YOU are interested in earning £1,500 or more per annum, and are willing to work on a commission basis only, other non-competitive lines not objected to, particularly if you have connections with the building trade, shopfitters and large stores, you are of interest to us.—Should we be of interest to you, please send brief details of experience and existing lines, in confidence, to Box 1706, "The Builder."

SALES REPRESENTATIVE, aged 25-45, Required by Ferro-Concrete Reinforcement Specialists in London. Preference will be given to applicants with previous experience and connections with Consulting Engineers, Local Authorities, Contractors, etc. Contributory Pension Scheme, salary and expenses according to experience.—Please reply stating details and salary required to Box No. DA 4009, c/o WHITES, 72 Fleet-street, London, E.C.4.

A CAPABLE SALES REPRESENTATIVE is Required to fill a vacancy on our south Yorkshire territory extending from Halifax-Chesterfield to east coast. To sell proprietary manufactures for preserving iron and steel work. Also for roofs, building maintenance, construction and distribution. Applicants must reside on the territory. Established connection exists. Salary, commission, expenses, superannuation. State if car owner.—Write Sales Manager, Andrew Maxwell Division (THE LIVERPOOL BORAX CO., Ltd.), Maxwell House, St. Paul's-square, Liverpool, 3.

EXPERIENCED REPRESENTATIVE Required for the sale of Precast Concrete products ranging from Piles, R.C. Frames, Exposed Aggregate Cladding Slabs, etc., by leading firm of Precast Concrete Manufacturers situated in Essex. Should have existing connections. Must be of good appearance and able to make contacts at the highest level. Apply in writing, giving details of past and present position with salary required. Company car provided, bonus and superannuation scheme in operation. All replies treated in confidence.—Box 1522, "The Builder."

TWO REPRESENTATIVES, with good knowledge of the building trade and allied professions, Required to deal with enquiries for the "Trusteel" system of steel-framed construction of houses and bungalows, one to be based in the Midlands, and one in Darlington.—Applications, stating age and full details of experience, to be made to TRUSTEEL CORPORATION (UNIVERSAL) Ltd., Lime Lodge, Heath-road, Oxhey, Watford, Herts.

EXPERIENCED REPRESENTATIVES,

Already calling on woodworking trades and large timber users, required in various areas to sell established lines, with large and rapidly expanding potential, of heavy duty fastening equipment, including consumable fasteners. Exclusive territory and generous commission terms offered. State age, experience, territory covered to

Box 1743, "The Builder".

BUILDERS ASSISTANTS

BUILDERS' ASSISTANT Required for Hertfordshire builders. Some designated office duties combined with estimating and surveying and as Assistant to Director. Salary commensurate with experience.—Full particulars to Box 1672, "The Builder."

YOUNG MAN (18 years upwards) for Office, Plastering Firm, S.W.6, to learn wages, costing and later assist outside measuring contracts. Good wages. —Apply in writing, full details, to Box 1666, "The Builder."

BUILDER'S ASSISTANT Required for fluctuations claims and to assist in Surveyor's Office.—Apply stating age, experience and salary required to MESSRS. A. T. ROWLEY (LONDON) Ltd., Cambridge Works, Lordship-lane, Tottenham, N.17. TOTtenham 3611.

ASSISTANT with some estate or legal experience Required in Land Section of Planning Department to deal with various transactions and agreements related to residential development. Pension scheme.—Apply in writing to H. C. JANES, Ltd., Builders, 183 High Town-road, Luton.

JUNIOR BUILDER'S ASSISTANT Required by well known City Contractors. Previous experience and draughtsmanship desirable.—Write giving full particulars of experience with age and salary required, Box 1767, "The Builder."

FORD & WALTON LTD.,
WALTON HOUSE,
WARTON ROAD, E.15.

whose offices will be moving to Wembley Park within 12 months require a young man to be trained as an

ASSISTANT

in their Shuttering Department. Ultimate duties will be measuring for and computing weekly bonus, preparing final accounts and the keeping of costs and other records. Preference will be given to a young man who has had some surveying experience but all applications will be considered. This is an interesting position in a specialised branch of the industry that is becoming increasingly more important. Applications in own handwriting giving age, salary required, details of education and previous employments, etc. should be addressed to **The Personnel Manager** at the above address.

AGENTS

AGENT Required immediately, must be good organizer and fully experienced in all types of construction.—Apply in writing, stating age, experience and salary required, to W. J. SIMMS SONS & COOKE, Ltd., Beddington-lane, Croydon, Surrey.

ENGINEER/AGENT

Required immediately, AGENT thoroughly experienced in high quality Reinforced Concrete, Coffer Dams and working under ground water conditions. Superannuation scheme in operation. Write giving age, experience, salary required and full details.—J. L. EVE CONSTRUCTION CO., Ltd., 17 Hillside, Ridgway, Wimbledon, S.W.19.

ASSISTANT SITE AGENTS Required for Building Contractors specialising in large scale factory and warehouse construction. Applicants must be mobile with good site experience and preferably with technical qualifications. Permanent positions with good opportunities for advancement.—Box 1523, "The Builder."

SIR LINDSAY PARKINSON & CO., Ltd., Require SITE AGENTS and GENERAL FOREMEN for their speculative housing and flat contracts.—Please reply attention Mr. Lindsay, SIR LINDSAY PARKINSON & CO., Ltd., 6 Lambeth-road, London, S.E.1.

LAING

AGENTS

are required for senior appointments on large construction contracts in various parts of the country.

Applicants will be required to have a sound experience on a wide variety of contract work. L.I.O.B. or A.M.I.C.E. qualifications preferred. Age 30-40.

These appointments offer progressive and permanent employment with Superannuation scheme.

Salary will be commensurate with experience and qualifications.

Apply in writing to
Personnel Manager (A.4.)
JOHN LAING
AND SON LIMITED,
London, N.W.7.

SITE AGENT

required for City Office Building with steel frame and unusual form of precast floor construction, by

McLAUGHLIN & HARVEY, LTD.
24, Highbury Grove, N.5.
CANONBURY 2476.

Only men with previous experience of City Building will be considered and only those who can exercise drive and produce quality work to a tight building programme.

FOREMEN & SUPERVISORS

ABOVE AVERAGE FOREMAN Required for reputable firm of Joinery Specialists and Shopfitters. Experienced in producing both high class and repetitive work competitively by modern methods. Permanent and progressive job in pleasant South Coast town.—Age, experience and salary expected to Box 1667, "The Builder."

GENERAL FOREMAN Required for Hastings area. Must be fully conversant with large housing schemes, roads and sewers. Sound knowledge of instrument work and all trades required.—Apply in writing to PROWTING, Ltd., Bury-street, Ruislip, Middlesex, stating age, experience and salary required.—Box 1668, "The Builder."

RICHARD COSTAIN LIMITED

invite applications for

AGENTS/GENERAL FOREMEN

to control major building contracts.

Candidates should be fully experienced in all phases of building construction and have an appreciation of cost control and pre-planning combined with a keen interest in new techniques. Mobility would be a condition of employment.

Apply in writing stating age, qualifications and experience to:—

Senior Personnel Officer,
111, Westminster Bridge Road,
LONDON, S.E.1.

CUBITTS

HOLLAND & HANNEN AND CUBITTS (GREAT BRITAIN) LTD.,

require

GENERAL FOREMAN

Experience in control of medium and large sized contracts—Building and Structural Engineering. The appointments are permanent and pensionable and offer good conditions and prospects for men willing to adopt modern techniques. Applications are invited from men with recognised qualifications.

Please write to:

PERSONNEL MANAGER,
1, Queen Anne's Gate,
LONDON, S.W.1.

SENIOR GENERAL FOREMAN

Applications invited by National B. & C.E. Contractors from experienced men in reinforced concrete work and Civil Engineering type Contracts. Must have had previous recent experience in charge of large scale jobs with National Contractors—able to work with minimum of supervision and thoroughly conversant with all modern methods and plant and possessing drive and initiative. A good salary and terms to suitable applicants. Send full details to

Box No. 1543

GENERAL FOREMAN

Old established National Building Contractor in Midlands Area has vacancies for top grade General Foreman for large building Contracts to commence shortly. C. & J. trained and have been responsible over recent years for successfully carrying out large Contracts embracing factories, office blocks, public buildings, reinforced concrete, etc., with minimum of supervision.

Fully conversant with modern techniques and possessing drive and initiative.

Top rate salary and allowances to suitable applicants addressed to

Box No. 1544

McLAUGHLIN & HARVEY LTD.
require

GENERAL FOREMEN

for high class commercial and industrial contracts, London and outskirts. Applicants who are engaged and prove ability, can join permanent staff Life Insurance & Pensions Scheme. Following particulars must be given in writing before interview—age, trade, experience, previous employers, to McLAUGHLIN & HARVEY, LTD., 24, Highbury Grove, N.5.

GENERAL FOREMAN

for private enterprise housing development. Previous experience essential. Good salary, pension Scheme.

Apply

TAYLOR WOODROW HOMES LTD.
Western House,
Western Avenue, Ealing, W.5.

CONTRACT SUPERVISORS Required by London Specialist Company engaged in finishing trades to Building Industry. A car is provided. Work is interesting and affords opportunity for advancement. —Write fullest details stating previous salary to Box 1669, "The Builder."

WORKING GENERAL FOREMAN for contracts about £5,000 in London area. Setting-out and supervision of all trades on new and alteration work. Please state age, experience and salary.—Box 1670, "The Builder."

GENERAL FOREMAN Required for medium size building work to be carried out in the London area. Applications will only be considered from men who have been engaged for some years on work demanding a high standard of finish, and who have a proved record of successful work in this field. Salary not less than £1,200 per annum for the right man, plus bonus, and pension scheme after approved period with opportunities for advancement.—Apply by letter only to the General Manager, THE UNIT CONSTRUCTION CO. Ltd., Central-way, Faggs-road, Feltham, Middlesex.

BUILDING GENERAL FOREMEN. Only men with experience on contracts ranging from £50,000 to £500,000 need apply. Applicants must be willing to travel in the United Kingdom. Permanency offered and pension scheme.—Apply, stating experience and remuneration required, to THE MITCHELL CONSTRUCTION COMPANY Ltd., Wharf Works, Peterborough.

GENERAL FOREMAN Required, Housing Contract Reading.—Box 1591, "The Builder."

ASSISTANT GENERAL FOREMAN Required. Housing, Reading area.—Box 1592, "The Builder."

ACTIVE GENERAL FOREMEN Required Housing Estates Hampshire and Barnet area. Only good men need apply.—Box 933, "The Builder."

EXPERIENCED GENERAL FOREMAN Required for a large municipal flat contract in East Ham. —Apply in writing, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

THOMAS LOWE & SONS, LTD., of Curzon-street, Burton-on-Trent, have a vacancy for a BUILDING SUPERVISOR in the Birmingham area. Applicants must have had previous experience of taking charge of several building contracts under supervision of an Area Manager. Applications should be submitted in writing stating age, experience and salary required.

EXPERIENCED GENERAL FOREMAN Required to take full charge of high class Contract of approx. £240,000 in Oxford. Must be cost conscious, able to work to detailed programming and completion dates. Apply in writing, giving full particulars of positions held, contracts carried out and salary required. Good references essential.—Apply J. PARNELL & SON Ltd., Oliver-street, Rugby.

SENIOR BUILDING FOREMAN Required for London and Provinces.—Please apply in writing stating experience and salary required to Mr. G. H. Burton, THE DEMOLITION AND CONSTRUCTION CO., Ltd., Mitcham-road, Croydon, Surrey.

EXPERIENCED GENERAL AND FINISHING FOREMAN Required for contracts in Home Counties and South Midlands.—Applications stating experience, age, salary required and when available to F. J. MINNS & CO., Ltd., 9 West-way, Botley, Oxford.

GENERAL FOREMAN, of drive and ability, Required. Must be able to work to programmes, and accustomed to R.C. work. Opportunities for advancement for right man.—Apply stating experience and salary required to COURTENAY & FAIRBAIRN Ltd., 377 Albany-road, S.E.5.

GENERAL FOREMAN Required for medium-sized factory contract Watford area. Conversant all trades and setting-out.—WM. KING & SONS, Ltd., 41 Market-street, Watford 23215.

PLUMBING SUPERVISOR Required by Specialist London Company. Unique opportunity for man with ability, enthusiasm and experience. Good salary, bonus and prospects.—Details, please, to Box 1675, "The Builder."

CONTRACTS SUPERVISOR Required by reputable and progressive Cambridge firm of Building Contractors. Applicant must be able to supervise a number of contracts concurrently, averaging £20,000 and mainly of traditional construction. Preference will be given to men with knowledge of contract planning and capable of handling all connected correspondence and outside personal contacts. This will be a responsible management post.—Applications for interview, which will be treated in confidence, should give age and precise details of relevant experience and be sent to Mr. B. H. Johnson, Messrs. JOHNSON & BAILEY, Ltd., Norfolk-street, Cambridge.

GENERAL FOREMAN Required for good-class housing estate in Buckinghamshire area. Previous experience in this class of work essential, including ability to set out estates and lay roads and sewers. —Apply in writing, A. E. A. PROWTING, Ltd., Bury-street, Ruislip, Middlesex, stating age, salary and experience.

GENERAL FOREMAN, must have Higher National Certificate in Building and considerable experience in reinforced concrete work. Aged 30-40, Manchester area.—Apply Box 1710, "The Builder."

OUTSIDE SUPERVISOR (Carpenter and Joiner) Required by old established Channel Islands Contractors. Capable of supervising Contracts and Jobbing, also organising transport, plant and materials, inclusive salary £1,000 p.a. Permanency for suitable applicant. Driving licence essential.—Apply ERNEST FARLEY & SON, Ltd., First Tower, Jersey, C.I.

BUILDERS' WORKING FOREMAN Required by old established Channel Islands Contractors. Capable of taking charge all trades on new work and alterations. £806 p.a. plus £2 per week subsistence. Permanency for suitable applicant.—Apply ERNEST FARLEY & SON, Ltd., First Tower, Jersey, C.I.

REQUIRED.—TRAVELLING FOREMAN or CLERK OF WORKS to take control of various Air Ministry Maintenance Contracts. Must have sound knowledge of W.D. Schedule. Accommodation if required, non-contributory pension scheme.—Apply in writing giving qualifications, experience, salary required, to W. J. ROBERTS (BOTTESFORD), Ltd., Bottesford, Nottingham.

GENERAL FOREMAN (Civil Engineering and Building). Applications are invited from experienced foreman to take complete control of contracts in the southern counties. This position is permanent and offers excellent opportunity.—Apply in writing stating age, experience, references and salary required. Box 1729, "The Builder."

GENERAL FOREMAN Required for Private Estate Development in Shrewsbury. About 100 houses annually, all trades including roadmaking and sewering.—Apply FLETCHER ESTATES (HARLESCOTT), Ltd., Whitchurch-road, Shrewsbury. Tel.: 4436.

THE SPOONER GROUP

Continued expansion to all parts of the British Isles permits us to offer employment to suitably qualified

GENERAL FOREMEN

particularly on Housing, Schools and Hospitals.

Applicants must be mobile and of sound experience in handling complete contracts.

Apply in confidence stating age, experience and indication of salary required to:

SPOONERS (HULL) LIMITED,
Stoneferry, Hull

SENIOR GENERAL FOREMAN

urgently required for large LONDON contract **SALARY** up to **£1,500 p.a.**

Apply Box 1495

ASSISTANT FOREMEN AND TRADE FOREMEN

required for large scale traditional contract in Southampton. The position will offer progressive opportunity to young Supervisors, or Tradesmen, ambitious in advancing their status to senior level. The position offered is for employment with an expanding Company, employing modern methods and techniques of Site Management and Operation. Interested applicants will be required to attend an interview. Please write, outlining experience and qualifications to :—

G. T. Crouch Ltd.,
Area Agent,
Northam Stage I Redevelopment Scheme
Northam, Southampton, Hants.

J. T. PARSONS & SON LTD.

Westbury, Wilts.

invite applications for permanent positions at both WESTBURY and SALISBURY as

SUPERVISORS

sound practical ex-tradesmen with drive, initiative and ability to organise and achieve satisfactory site standards of workmanship and productivity.

GENERAL FOREMEN

with modern conception of organisation, planning and control and ability to produce first class results within Contract time.

Fullest co-operation from Management plus Bonus.

Applications in confidence with details of experience, age and salary required to Managing Director.

HOWARD FARROW LIMITED

BUILDING DIVISION
REQUIRE

GENERAL FOREMEN

Applicants should be capable of carrying out contracts up to the value of £100,000 and should possess a sound knowledge of modern building technique and have a keen interest in planning and costing. After a probationary period the successful applicants will be assured of a permanent position in a progressive firm with membership to a contributory pension scheme. Please send full particulars of age, past experience, qualifications, salary required, to:

Howard Farrow Limited,
Bank Buildings, Golders Green Road, N.W.11.
Ref. NJP.

CONTRACTS SUPERVISOR

This vacancy is for a man of 30/40 years of age, who is keen and ambitious, and constantly alert to the mechanisation of all work possible.

Preference will be given to those with Planning experience and sound technical knowledge of concrete practice.

Previous experience must include working on confined sites in Central London and on Industrial Works on large open sites.

Work in first instance will be on sites up to £250,000.0.0 in value.

Applications in strictest confidence must give details of education and experience to Managing Director,

Box No. 1634, "The Builder"

E. & J. COTTON LIMITED

Due to continued expansion we invite applications for the following appointments.

AREA CONTRACTS SUPERVISOR

Capable of full control and organisation of several competitive building contracts running concurrently.

SURVEYOR/ESTIMATOR

Experience in competitive tendering, price build up and contract control from enquiry to final account, for all types of building work.

ASSISTANT ESTIMATOR

With experience of price analysis and tendering for all building works. Knowledge of progress planning an advantage.

These posts are permanent and progressive in an expanding organisation. Salaries will be commensurate with experience. Pension scheme in operation. Car provided where necessary and possible assistance with accommodation.

Ring Mr. South at IVER (Bucks.) 506 for appointment.

CONTRACTS SUPERVISOR/ESTIMATOR

required to take charge of estimating and outside contracts for manufacturers of prefabricated steel and timber buildings. Excellent opportunity for man with experience and sound technical knowledge. Good salary, pension scheme, etc., awaits the right applicant for this permanent position with a bright future. Apply J. E. Lesser & Sons Ltd., Green Lane, Hounslow, Middx.

PLANNING ASSISTANTS

Holliday & Greenwood Ltd., require additional assistance in their contract Planning Department. Experienced General Foremen and Surveyors who wish to improve their future prospects on the contract organisation side and Juniors who seek rewarding administrative posts are invited to apply in writing, stating age, qualifications, experience and salary to:

Holliday & Greenwood Ltd.,
11 Buckingham Palace Gardens, S.W.1.

OLD established Building Contractors Require experienced GENERAL FOREMAN for contract in London area.—Write, stating age, experience, salary, etc., to Secretary, C. P. ROBERTS & CO. Ltd., 31 High Holborn, W.C.1.

GENERAL FOREMAN Required immediately for contract exceeding £100,000 in Epsom area. Must have like experience and be able to keep within strict time limit.—Full details to SLOGGETTS (CONTRACTORS) Ltd., 209 High-street, Hampton Hill, Middlesex.

GENERAL FOREMAN to take complete charge and control all trades. Must have good experience of private house building and state development. Accommodation available.—Full details to NERANK BUILDING CO. Ltd., Ruscote-avenue, Banbury, Oxon.

GENERAL FOREMAN Required for £70,000 Contract commencing on the 1st April, 1960. Cheshunt, Herts area.—Apply with full particulars Box 1768, "The Builder."

SUPERVISOR Required for Industrial Painting Contractors with premises in Central London area. View to partnership.—Box 1769, "The Builder."

CARPENTERS & JOINERS

WANTED: CARPENTERS for work on Civil Engineering Construction. Permanent base for work in the St. Austell area.—Apply ENGLISH CLAYS LOVERING POCHIN & CO., Ltd., Projects Engineer, 14 High Cross-street, St. Austell, Cornwall.

SETTER-OUT Required, used to good-class joinery. Permanent position for experienced man.—Apply in writing to FOSTERS (WOODWORKERS) Ltd., Smarts-lane, Loughton, Essex.

SHOPFITTING SETTER-OUT Required. Good rates and prospects for experienced man.—Apply O. PETERSON Ltd., 51 Stamford-hill, N.16.

CLERKS

ESTIMATOR'S ASSISTANT Required to help with estimating work. First-class opportunity to learn general estimating, joinery costing and variations on Bill of Quantities, day work, etc. London, S.W.—State age, experience and salary, Box 1771, "The Builder."

GENERAL COST CLERK, male or female. Must have knowledge of P.A.Y.E. and general builder's office work.—State age, experience and salary required, Box 1772, "The Builder."

TYPIST AND GENERAL OFFICE DUTIES for Quantity Surveyors, W.C.1.—Experience, age and salary required to Box 914, "The Builder."

TECHNICAL CLERK of Senior capacity Required for large speculative building department. Capable of keeping records and multi-filing. Excellent prospects, superannuation scheme.—Apply in writing, giving age, experience and salary required, to SIR LINDSAY PARKINSON & CO. Ltd., 6 Lambeth-road, London, S.E.1.

BOOK-KEEPER Required by large and expanding company of Estate Developers for work in conjunction with costing system.—Write stating age, experience and salary required to Chief Surveyor, McMANUS & Co. Ltd., Mimms Hall-road, Potters Bar, Middlesex.

HIGGS & HILL LTD. Require experienced TIME-KEEPERS/WAGES CLERKS between 25-35 years of age. Must be experienced in wages construction and P.A.Y.E. and to work outside London if necessary.—Write giving details of experience and salary required to Crown Works, South Lambeth-road, S.W.8.

WAGES Department of Contractor's Office Require YOUNG LADY to be in charge of payment of wages. Must have knowledge of P.A.Y.E. and general experience in the trade.—Write giving details and salary required, CHARLES H. PRICE, Kingsbury-road, N.W.9.

ACCOUNTANT FOR BUILDING COMPANY

Applications are invited for an Accountant (in the 25 to 35 age group), preferably qualified and with commercial experience in the Building Industry.

This is a progressive appointment, with responsibility for accounting administration, which offers an attractive future to the right man who will work directly under the Chief Accountant.

Applicants, who should stage age, qualifications, experience and salary required, are asked to write to :

FINNIE, ROSS, WELCH & CO.,
108a Cannon Street, London, E.C.4.

CLERK Required for Invoice Department. Knowledge of Building Materials essential. Excellent salary and prospects.—Details of experience, etc., to Office Manager, TERSONS Ltd., 4 Dollis Park, Finchley, London, N.3.

ACCOUNTANT, wages, costing, ledgers to T.B. in charge small department, one assistant.—A. J. WILLSON & SONS, Ltd., 146 Brent-street, Hendon, N.W.4.

EXPERIENCED BUILDER'S CLERK in busy office. Write full particulars age, experience and salary to GREENAWAY & SON, Ltd., 265 Lordship-lane, S.E.22.

OPPORTUNITY, Builder's Office, Shoreditch, for accurate TYPIST desiring varied and interesting work where duties include telephone and reception. Hours 9-5.30.—Write Box 1730, "The Builder."

LAKE DISTRICT Builder Requires CLERK to take full charge of pricing and tendering. Married man preferred, aged 28 to 28. Housing accommodation available.—Apply to Box 1709, "The Builder."

BUILDER'S CLERK Required for small building firm. Fully experienced. Take control of office. References required.—WARE & STEVENS, 138 Hounslow-road, Hanworth, Middx.

BUILDERS' CLERK with some experience surveying and estimating. Required by St. Albans Builders. Suit young man seeking further experience in estimating. Good salary and prospects.—Full particulars to Box 1671, "The Builder."

BOOK-KEEPER Required. Experience to extent of trial balance.—R. DURTNELL & SONS, Ltd., Brasted, Westerham, Kent.

BUILDER'S COST CLERK Required as additional staff at Head Office.—R. DURTNELL & SONS, Ltd., Brasted, Westerham, Kent.

OFFICE MANAGER/ CASHIER

Applications invited by National B. & C.E. Contractors from experienced men for responsible positions on large Contracts. Duties will include Wages Account, checking invoices, prime costs, etc. Applicants will be required to be covered by Fidelity Insurance. Contracts situated in Midlands area. Apply with full particulars to

Box No. 1542.

CLERK to take charge of Cotswold Builders' Office. Experience of Building trade essential. Accommodation available if required.—Reply Box 1695, "The Builder."

JOINERY COST AND ACCOUNTS CLERK urgently Required for first-class joinery works. Must have knowledge of trade generally. Permanent job, good wages and conditions.—W. F. DAVEY & CO. (JOINERY LTD.) (rear of shops), The Crossways, Heston, Middx.

MISCELLANEOUS

FORD & WALTON Ltd. Require a STORES SUPERVISOR at their Enfield Plant Depot. Applicant must have stores experience and a knowledge of builders' plant and materials.—Write to Personnel Manager, FORD & WALTON Ltd., Walton House, Warton-road, E.15.

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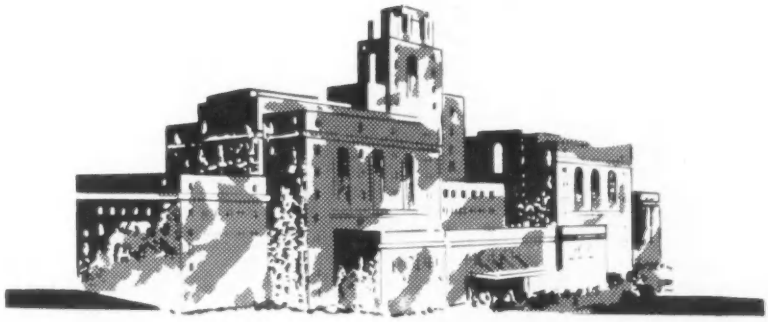

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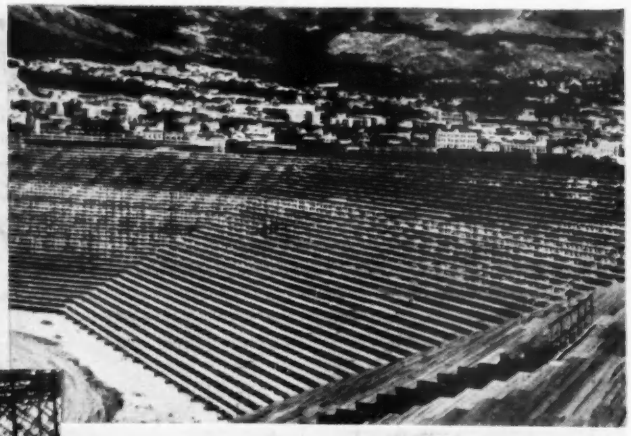

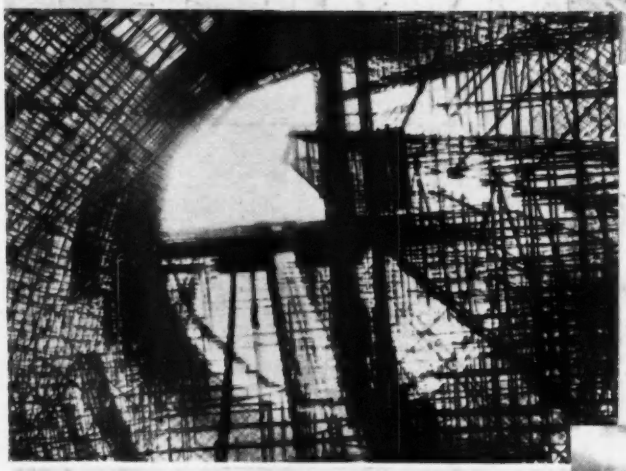

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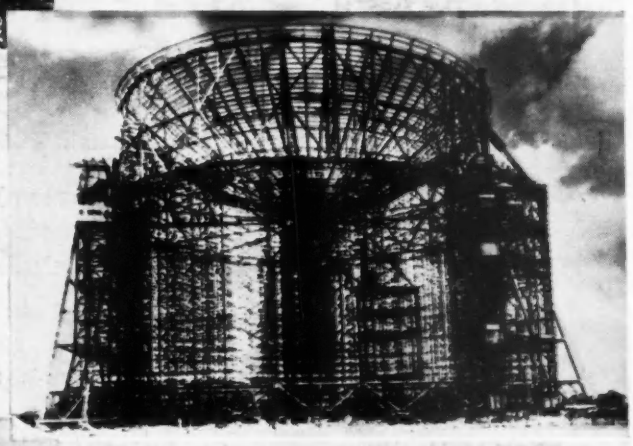

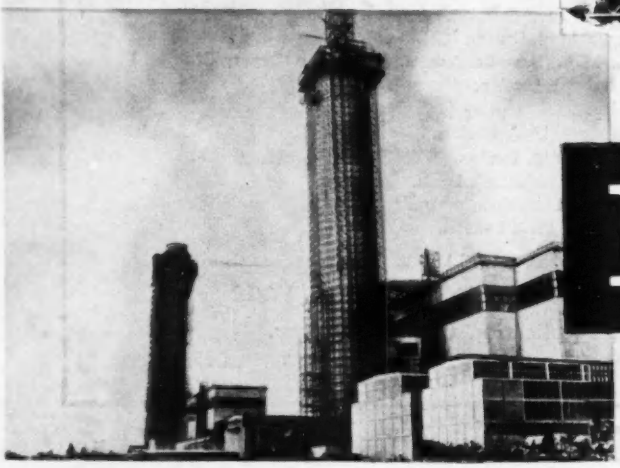

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